

INDEX OF SUBJECTS

A

- Acquired immunodeficiency syndrome
correlation between manual and Technicon H-1 white blood cell differentials in, granulocyte-macrophage colony-stimulating factor and, 447
cytomegaloviral adenitis and adrenal insufficiency in, 651
detection of human immunodeficiency virus-related protein in testes and prostates and, 196
disseminated histoplasmosis in, hematologic and bone marrow manifestations of, 367
human immunodeficiency virus-1 in liver tissues and, immunohistochemical studies of, 452
persistent lymphadenopathies in people at high risk for, 208
Pneumocystis carinii pneumonitis and, fibrocystic pulmonary disease in, radiologic-pathologic correlations and, 454
polymerase chain reaction and, S49
presentation of disseminated *Pneumocystis carinii* in, 454
surgical neuropathology of, 442
- Activated partial thromboplastin time ratio, heparin therapy monitoring and, 684
- Acute myocardial infarction, coagulation and fibrinolytic changes in, treated by high-dose, brief-duration streptokinase, intracoronary or intravenous, 246
- Adenocarcinoma
colonic, with neuroendocrine differentiation, 440
colorectal, DNA ploidy and cell cycle analysis of, 615
esophageal, multidrug resistance gene in, 1
intraabdominal metastases of, feto-acinar pancreatic protein in, immunohistologic study of, 14
of lung, bronchial gland cell type, clinicopathologic and immunohistochemical characteristics of, 20
pancreatic, feto-acinar pancreatic protein in, immunohistologic study of, 14
of prostate, immunoreactivity to monoclonal antibody B72.3 and, 466
- Adenoma, pleomorphic, mammary, 792
immunohistochemical, flow cytometric, and ultrastructural study of, 795
- Adenovirus, *in situ* hybridization studies for viral nucleic acids and, in heart and lung allograft biopsies, 675
- Adrenal gland, surgical pathology of, in ectopic adrenocorticotrophic hormone syndrome, 438
- Adrenal insufficiency, in acquired immunodeficiency syndrome, 651
- Adrenitis, cytomegaloviral, in acquired immunodeficiency syndrome, 651
- Adrenocorticotrophic hormone stimulation test, cytomegaloviral adrenitis and adrenal insufficiency in acquired immunodeficiency syndrome and, 651
- Alanine aminotransferase, screening donor population for, 53
- Aldolase C isozyme, expression in renal cell carcinoma, 631
- Alkaline phosphatase-anti-alkaline phosphatase technique, immunophenotyping of acute leukemias and, using paraffin-embedded tissue sections, 502
- Alpha-fetoprotein, maternal, immunoassay for screening for, 352
- Alveolar soft part sarcoma, immunohistochemistry of, 32
- Amniotic fluid cell, banding resolution of chromosome preparations and, for prenatal diagnosis, 765
- Anemia
serum tests for iron deficiency and, in hospitalized patients, 240
sickle cell, anti-Do^b in, 450
- Aneuploidy
cutaneous squamous cell carcinoma and keratoacanthoma and, DNA content and proliferative index in, 259
DNA, comparison of DNA quantitation by image and flow cytometry and, 322
image analysis confirmation of, in flow cytometric DNA distributions having wide coefficient of variation of G0/G1 peak, 637
- Antibodies. *See also* Monoclonal antibodies
antidesmin, 430
antikeratin CAM5.2, negative expression of, in neoplastic astrocytes, 442
antiphospholipid, heterogeneity of laboratory test results for, in patients treated with phenothiazines, 771
to human immunodeficiency virus-1, sensitivity and interobserver variability of Recombinogen-HIV-1 LA test and, 538
mucin, colon specific, characterization of, 621
paraffin-reactive, in non-Hodgkin's lymphoma of gastrointestinal tract, 233
peroxidase-labeled antibody method and, aldolase C isozyme expression in renal cell carcinoma and, 631
unexpected, testing neonates for, serum volumes and, 267
- Anticoagulants, Coulter Counter® S-Plus STKR analyzer and, 760
- Antidesmin antibodies, 430
- Anti-Do^b, in sickle cell anemia, 450
- Antikeratin antibody CAM5.2, negative expression of, in neoplastic astrocytes, 442
- Antiphospholipid antibodies, heterogeneity of laboratory test results for, in patients treated with phenothiazines, 771
- Antithrombin, surfactant, neutralization of activity of, production of arteriolar thrombi by, on intact endothelium, 448
- Aortic stenosis, calcific, cartilaginous metaplasia in, 809
- Aortic valve, calcific disease of, cartilaginous metaplasia in, 809
- Apoprotein, surfactant, in bronchial gland cell type adenocarcinoma of lung, 20
- Asian people, screening for alanine aminotransferase and hepatitis B core antibody-A, non-B, 533
- L-Asparaginase, effects on plasma levels of free protein S, 437
- Aspergillosis, pulmonary, invasive, experimental, murine, 510
- Assays, hemostasis tests and, S3
- Astrocytes, neoplastic, negative expression of antikeratin antibody CAM5.2 in, 442
- Atrial myxomas, DNA analysis of, 439
- Autoimmune disease, lymphocytic mastopathy as, 725, 834
- Automation
automated differential and, in hematology laboratory, S11
cell suspension preparation and, from human biopsy samples, for immunophenotyping, by flow cytometry, 104
immunoassay and, of thyrotropin, 84
reticulocyte counters and, reticulocytes in human preserved blood as control material for, 109
Sysmex R-1000 and, 70
Autopsy, diagnostic yield from, 486

Azurophilic granules, aggressive jejunal lymphoma and, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124

B

- BACTEC, rapid isolation and identification of mycobacteria and, 452
correlation of results with growth index, 415
- Bacteremia
effect on automated platelet measurements, in neonates, 391
Shigella, 452
- Bacterial killing, neutrophil function assays and, effect of cell separation procedures on, 662
- Banding resolution, of amniotic cell chromosome preparations, for prenatal diagnosis, 765
- Band neutrophils, detection of, using Technicon H-1, 446
- Barrett's esophagus, multidrug resistance gene in, 1
- B-cell(s), detection of, diagnostic utility of commercially obtained 4KB5 and UCHL-1 and, 58
- B-cell malignancies, molecular gene rearrangement analysis and, in hemopathology, S38
- bc1-2 gene rearrangement, fine-needle aspiration of non-Hodgkin's lymphoma and, 754
- BCR, molecular gene rearrangement analysis and, in hemopathology, S38
- Behring nephelometer, for detection of low level urinary albumin, 405
- Bence Jones protein, optimum urine collections for detection of, 689
- Benign mixed tumor, of breast, 792
immunohistochemical, flow cytometric, and ultrastructural study of, 795
- Benzo(a)pyrene, quinone reductase isozyme from forestomachs of mice exposed to, isolation and purification of, 455
- Biclonal gammopathy, lymphocytic lymphoma and gamma heavy chain disease and, gamma heavy chain disease with, 137
- Biomaterials, giant cell myocarditis associated with silicone and, 148
- Biopsy
automated preparation of cell suspensions from samples, for immunophenotyping, by flow cytometry, 104
of breast, localizing microcalcifications in, 557
of liver, disseminated coccidioidomycosis detected by, in liver transplant recipient, 141
in metastatic carcinoma, bone marrow aspirate concurrence with, 449
- Biotinylated probes, *in situ* hybridization studies for viral nucleic acids and, in heart and lung allograft biopsies, 675
- Bismuth therapy, *Campylobacter pylori* colonizing heterotopic gastric tissue and, in rectum, 144
- Black people, screening for alanine aminotransferase and hepatitis B core antibody, 533
- Blastoma
pleuropulmonary, immunohistochemical analysis, comparison with fetal lung in pseudoglandular stage and, 167
pulmonary, 294
immunohistochemical analysis, comparison with fetal lung in pseudoglandular stage and, 167
- Blastomyces dermatitidis*, giant forms of, in pulmonary lesions of blastomycosis, 575
- Blastomycosis, pulmonary, giant forms of *Blastomyces dermatitidis* in, 575
- Blood cell(s), improved avidin-biotin immunoperoxidase method for terminal deoxynucleotidyl transferase and immunophenotypic characterization of, 670
- Blood cell counts, abnormalities of leukocyte histograms and, resulting from microorganisms, 526
- Blood culture, viridans and nonhemolytic streptococci and, isolated from blood and cerebrospinal fluid, in pediatric population, clinical relevance of, 270
- Blood donations, autologous, postoperative, by cardiac surgery patients, 450
- Blood donors, first-time, moderate and severe reactions in, 450
- Blood products, variations in fibrinogen and von Willebrand factor content of cryoprecipitate and, 694
- Blue nevi, evaluation by monoclonal antibody HMB-45, 438
- Bone
Langerhans' cell histiocytosis of, fine-needle aspiration of, in children, 444
schwannoma of, melanotic, clinicopathologic, immunohistochemical, and ultrastructural features of, 424
- Bone marrow
histoplasmosis and, in acquired immunodeficiency syndrome, 367
immunophenotypic analysis of cells isolated from, with failed bone marrow aspiration, 545
particle sections of, immunophenotyping of acute leukemias and, using paraffin-embedded tissue sections, 502
transplanted, engraftment of, serum enzyme levels and, 445
- Bone marrow aspirate, in metastatic carcinoma, biopsy concurrence with, 449
- Borrelia burgdorferi* DNA, in synovial fluid, diagnosis of Lyme disease by, by polymerase chain reaction, 453
- Breast
autoimmune disease of, lymphocytic mastopathy as, 725, 834
biopsy of, localizing microcalcifications in, 557
cystosarcoma phyllodes of, DNA content and proliferative activity of, 480
fine-needle aspirates of, monoclonal antibody B 72.3 in, 438
lymphocytic mastopathy and, as autoimmune disease, 834
papillomatosis of, juvenile, 599
pleiomorphic adenoma of, 792
immunohistochemical, flow cytometric, and ultrastructural study of, 795
- Breast carcinoma
aspiration smears of, prognostic patterns in, 445
cellularity in, 98
less common, estrogen receptor expression of, 437
nuclear DNA content as prognostic factor in, 471
progesterone receptor in, immunocytochemical detection of, monoclonal antibodies and, 378
- Breast masses, palpable, fine-needle aspiration of, 445

C

- Campylobacter pylori*
antibodies to, ELISA for detecting, 452
colonizing heterotopic gastric tissue, in rectum, 144
survival of, effect of transport media and temperature on, 452
- Cancer
of breast, nuclear DNA content as prognostic factor in, 471
germ cell, of testes, expression of HLA class I antigens in, 202
of prostate, lack of human papillomavirus in, 441
Technicon H-1 analyzer for evaluation of oncology patients and, 447
- Cancer procoagulant, in malignant melanoma, interaction with coagulation and fibrinolysis pathways *in situ*, 516
- Carcinoembryonic antigen, H antigen, peanut agglutinin receptor, and *Saphora japonica* receptor expression and, in infant thymuses and thymic neoplasias, 44
- Carcinoma
of breast
aspiration smears of, prognostic patterns in, 445
cellularity in, 98
family history of, juvenile papillomatosis of breast and, 599
less common, estrogen receptor expression of, 437
nuclear DNA content as prognostic factor in, 471
progesterone receptor in, immunocytochemical detection of, monoclonal antibodies and, 378
colonic, lymphocytic lymphoma concurrent with, 137
gastric, pancreatic secretory trypsin inhibitor in, immunohistochemical study on, 8

- hepatocellular
 non-neoplastic liver distinguished from, 444
 ultrastructural and immunohistochemical study of, 111
 of lung, large cell, histopathologic and immunohistochemical subtyping and, prognostic implications of, 176
 lymphoepithelial, of stomach, with Epstein-Barr virus demonstrated by polymerase chain reaction, 440
 metastatic, bone marrow aspirate and biopsy concurrence in, 449
 neuroendocrine, large cell, of lung, 439
 ovarian
 transitional cell, primary, diagnostic and prognostic considerations in, 586
 with transitional cell carcinoma pattern, 457
 renal cell
 clear cell, hemangioblastoma distinguished from, by AgNor method, 555
 expression of aldolase C isozyme in, 631
 hemangioblastoma distinguished from, by AgNor method, 555
 low stage, assessment of serum gamma glutamyl transpeptidase levels in, 560
 squamous cell
 cutaneous, DNA content and proliferative index in, 259
 signet-ring, of pyriform sinus, 592
 surface, serous, of peritoneum, cytology of, 443
 transitional cell
 with multinucleated stromal giant cells, 441
 ovarian carcinoma with pattern of, 457
 of ureter and renal pelvis, cytology in diagnosis of, 443
- Carcinosarcoma, pulmonary blastoma and, immunohistochemical analysis of, comparison with fetal lung in pseudoglandular stage and, 167
- Cardiac rhabdomyoma, 438
- Cardiac transplantation, plasma exchange in, 451
- Cartilage, metaplasia of, in calcific aortic valve disease, 809
- CD30 antigen, in acute infectious mononucleosis, 698
- Cell-surface antigens, improved avidin-biotin immunoperoxidase method and, for terminal deoxynucleotidyl transferase and immunophenotypic characterization of blood cells, 670
- Cell suspensions, automated preparation of, from human biopsy samples, for immunophenotyping, by flow cytometry, 104
- Central nervous system, lymphoma of, Richter's syndrome presenting as, 117
- Cerebellar metastasis, extrarenal Wilms' tumor with, spina bifida and, 805
- Cerebrospinal fluid, lactate dehydrogenase isoenzymes in, diagnostic value of, 446
- Cervico-vaginal smears, postpartum, routine, 443
- Cervix, uterine, melanosis of, after cryotherapy for epithelial dysplasia, 802
- Chemiluminescence, neutrophil function assays and, effect of cell separation procedures on, 662
- Chemotaxis, neutrophil function assays and, effect of cell separation procedures on, 662
- Chlamydia, detection by polymerase chain reaction, evaluation of primers for, 453
- Chlamydia trachomatis*, immunohistochemical detection of antigens to, in association with cystitis, 363
- Chorioamnionitis, acute inflammatory exudate in, association with amniotic squamous metaplasia, 582
- Chromosome abnormalities, in clear cell sarcoma, 26
- Chromosome analysis, banding resolution of amniotic cell chromosome preparations and, for prenatal diagnosis, 765
- Chromosome(s) 11,22 translocation, malignant peripheral neuroectodermal tumor and, human immunodeficiency virus infection and, 818
- Ciliary tufts, detached, comparison with intestinal protozoa, 541
- Ciliocytophthoria, detached ciliary tufts and, comparison with intestinal protozoa, 541
- Clear cell sarcoma, chromosomal abnormalities in, 26
- Clinical course, in primary noncutaneous T-cell lymphoma, as prognostic indicator, 49
- Clinicopathology, in bronchial gland cell type adenocarcinoma of lung, 20
- Clotting assay, one-stage and two-stage, for assay of tissue factor activity of leukemic cell, 679
- Clotting process, hemostasis tests and, 53
- c-myc gene rearrangement, fine-needle aspiration of non-Hodgkin's lymphoma and, 754
- Coagulation
 in evolving acute myocardial infarction, treated by high-dose, brief-duration streptokinase, intracoronary or intravenous, 246
 in malignant melanoma, interaction with fibrinolysis pathways *in situ*, 516
- Coagulation proteins, variations in fibrinogen and von Willebrand factor content of cryoprecipitate and, 694
- Cocaine, screening methods for measurement of, clinical and analytical evaluation of, 446
- Coccidioidomycosis, disseminated, detected by percutaneous liver biopsy, in liver transplant recipient, 141
- Colitis, ulcerative, monoclonal antihuman small bowel and colon specific mucin antibodies and, characterization of, 621
- Collagen, fibroblasts in synovitis and, in rheumatoid arthritis, carboxy-terminal domain of procollagen type I expressed in, 340
- Collagen deficiency, type III, in type IV Ehlers-Danlos syndrome, presenting as sudden infant death, 579
- Colon
 adenocarcinoma of, with neuroendocrine differentiation, 440
 carcinoma of, lymphocytic lymphoma concurrent with, 137
- Colorectal adenocarcinoma, DNA ploidy and cell cycle analysis of, by flow cytometry, 615
- Complete blood count, effect of temperature, time and instrument on results of, 447
- Complications, giant cell myocarditis associated with silicone and, 148
- Computed tomography, fine-needle aspiration biopsy guided by, deep-seated lesions and, 444
- Congenital disorders, immunoenzymatic assay for maternal-serum alpha-fetoprotein screening and, 352
- Contaminants, viridans and nonhemolytic streptococci and, isolated from blood and cerebrospinal fluid, in pediatric population, clinical relevance of, 270
- Cord blood, rapid analysis of lymphocyte subsets in, 263
- Coronary arteries, congenital anomalies of, in transposition of the great arteries, 438
- Coronary veins, congenital anomalies of, in transposition of the great arteries, 438
- Coulter Counter® S-Plus STKR analyzer, anticoagulants and, 760
- Crohn's disease
 monoclonal antihuman small bowel and colon specific mucin antibodies and, characterization of, 621
 rate of anastomotic recurrence in, microscopic abnormalities at resection margins and, 435
- Crossed immunoelectrophoresis, von Willebrand factor abnormality and, in hemoglobin E- β^0 thalassemia, 391
- Cryotherapy, for epithelial dysplasia, melanosis of uterine cervix after, 802
- Cryptococcal organisms, combined Fontana-Masson-Mucin stain for detection of, 435
- Cyclosporine therapy, liver allografts and, histologic manifestation of, 436
- Cyst(s), lymphoepithelial, of salivary glands, histologic and cytologic features of, 39
- Cystitis, immunohistochemical detection of antigens to *Chlamydia trachomatis* in association with, 363
- Cystosarcoma phyllodes, of breast, DNA content and proliferative activity of, 480

Cytogenetics, malignant peripheral neuroectodermal tumor and, human immunodeficiency virus infection and, 818

Cytology

dBASE III surgical pathology reporting and encoding system and, 91
fine-needle, of palpable orbital and eyelid tumors, 100
screening of specimens and, classification of individual cells by a neural network and, 442

Cytomegalovirus

adrenalitis and adrenal insufficiency in acquired immunodeficiency syndrome and, 651
rapid detection of, comparison of assays for, 373
sensitive methods for detecting, in interstitial pneumonitis, 491
in situ hybridization studies for viral nucleic acids and, in heart and lung allograft biopsies, 675

Cytometry, image, DNA quantitation by, flow cytometry compared with, 322

D

dBASE III, surgical pathology reporting and encoding system and, 91
D-dimer, rapid differentiation of subarachnoid hemorrhage from traumatic lumbar puncture using, 403

Deep venous thrombosis, thrombin-antithrombin complexes as indicator of, in postoperative patients, 448

Deoxyribonucleic acid

Borrelia burgdorferi, in synovial fluid, diagnosis of Lyme disease by, by polymerase chain reaction, 453
human immunodeficiency virus-I proviral, nested polymerase chain reaction assays in detection of, 437
molecular gene rearrangement analysis and, in hemopathology, S38
nuclear content of, as prognostic factor in breast cancer, 471
proliferative activity and, of cystosarcoma phyllodes, of breast, 480
Richter's syndrome presenting as primary central nervous system lymphoma and, 117

Deoxyribonucleic acid analysis

of atrial myxomas, 439
in rhabdomyosarcomas, 442

Deoxyribonucleic acid aneuploidy, comparison of DNA quantitation by image and flow cytometry and, 322

Deoxyribonucleic acid content

of aggressive jejunal lymphoma, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
in cutaneous squamous cell carcinoma and keratoacanthoma, 259
image analysis confirmation of DNA aneuploidy and, in flow cytometric DNA distributions, having wide coefficient of variation of G0/G1 peak, 637
in non-Hodgkin's lymphoma, flow cytometric study of, 449

Deoxyribonucleic acid extraction, automated versus manual, 749

Deoxyribonucleic acid ploidy, in colorectal adenocarcinoma, 615

Deoxyribonucleic acid polymerase α , as immunohistochemical marker for proliferating cells, in normal and neoplastic human tissues, 643

Deoxyribonucleic acid probes, *in situ* hybridization studies for viral nucleic acids and, in heart and lung allograft biopsies, 675

Deoxyribonucleic acid quantitation, by image and flow cytometry, comparison of, 322

Desmin

alveolar soft part sarcoma and, immunohistochemistry of, 32
diagnostic utility of, 305
fibroepithelial polyp of vagina and, 604

Desmopressin, thrombocytopenia after, absence of *in vitro* hypersensitivity to ristocetin and, 522

Diabetes mellitus

Behring nephelometer for detection of low level urinary albumin and, 405
maternal, reliability of TD_x fetal lung maturity assay in, 446

Diagnosis

differential

of fibroepithelial polyp of vagina, 604
morphologic diversity in malignant melanomas and, 731
prenatal, banding resolution of amniotic cell chromosome preparations and, 765
unexpected, at autopsy, 486

Diagnostic pathology, polymerase chain reaction and, S49

Dialysis, giant cell myocarditis associated with silicone and, 148

Differential diagnosis

of fibroepithelial polyp of vagina, 604
morphologic diversity in malignant melanomas and, 731

Differentiation, histopathologic and immunohistochemical subtyping and, large cell carcinoma of lung and, prognostic implications of, 176

Diphyllobothrium latum, ova versus larvae of, 302

Diploidy, cutaneous squamous cell carcinoma and keratoacanthoma and, DNA content and proliferative index in, 259

Direct immunofluorescence, in pulmonary blastomycosis, giant forms of *Blastomyces dermatitidis* in, 575

Discoveries, hemostasis tests and, S3

Disseminated intravascular coagulation, one-stage method for assay of tissue factor activity of leukemic cell and, 679

Dog bites, slides and, 161

Double gammopathy, myeloproliferative disorder and malignant lymphoma coexistent with, 132

Down's syndrome

immunoenzymatic assay for maternal-serum alpha-fetoprotein screening and, 352
platelets in, 447

E

Early antigen, cytomegalovirus and, rapid detection of, comparison of assays for, 373

Ectopic adrenocorticotrophic hormone syndrome, surgical pathology of adrenal gland in, 438

Effusions

malignant, monoclonal antibodies for assessment of estrogen and progesterone receptors in, 437
serous, identification of malignant cells in, immunocytochemical panel for, 436

Ehlers-Danlos syndrome, type IV, presenting as sudden infant death, 579

Electron microscopy

Campylobacter pylori colonizing heterotopic gastric tissue and, in rectum, 144

in fine-needle aspiration biopsy, value of, 445

morphologic diversity in malignant melanomas and, 731

Electron microscopy laboratory, influence of fine-needle aspiration biopsy on work load of, 444

Endometrium

biopsies of, rule-based consultation system for classification of, 441
human, expression of leukocyte adhesion molecules in, 183

Endophthalmitis, caused by *Pseudallescheria boydii*, presenting as persistent neutrophilic meningitis, 453

Endothelium

intact, production of arteriolar thrombi on, by neutralization of surface antithrombin activity, 448

Rocky Mountain spotted fever and, *Rickettsia rickettsii* in fixed cutaneous specimens and, rapid immunoperoxidase demonstration of, 410

Enzyme(s)

assessment of serum gamma glutamyl transpeptidase levels and, in low stage renal cell carcinoma, 560
urinary, assaying for, solid-phase chemistry system for, 445

- Enzyme immunoassay, aldolase C isozyme expression in renal cell carcinoma and, 631
- Enzyme-linked immunosorbent assay, for detection of *Campylobacter pylori* antibodies, 452
- Epstein-Barr virus
- CD30 antigen expression and histologic considerations and, 698
 - demonstrated by polymerase chain reaction, lymphoepithelial carcinoma of stomach with, 440
 - oligoclonal immunoglobulin heavy chain gene rearrangement and, in childhood immunoblastic lymphoma, 286
 - in situ* hybridization and, S44
- Erythroleukemia, monoclonal antibody for diagnosis of, 387
- Erythroleukemic cell lines, induced differentiation of, effect of vitamin γ on, 436
- Esophagus, adenocarcinoma of, multidrug resistance gene in, 1
- Estrogen receptors
- expression of less common breast carcinomas, 437
 - immunocytochemical assay of, in mammographically guided fine-needle aspirates, 438
 - in malignant effusions, monoclonal antibodies for assessment of, 437
- Ethanol, gas chromatographic headspace analysis of, in plasma, effect of sodium chloride concentration, water content, and protein on, 357
- Ethylenediaminetetraacetic acid artifacts, Coulter Counter S-Plus STKR analyzer and, 760
- Eyelid tumors, fine-needle cytology of, 100

F

- β F1
- antibodies to, phenotyping of T-cell proliferations and, in formalin-fixed paraffin-embedded tissues, 382
 - T-cell receptor expression in T-cell malignancies and, 495
- Factors, hemostasis tests and, S3
- Ferritin, serum tests for iron deficiency and, in hospitalized patients, 240
- Fetal-maternal hemorrhage
- flow cytometric quantitation of, 450
 - hereditary persistence of fetal hemoglobin presenting as, 277
- Fetal-maternal transfusion, hereditary persistence of fetal hemoglobin presenting as fetal-maternal hemorrhage and, 277
- Feto-acinar pancreatic protein, immunohistologic study of, in normal pancreas, chronic pancreatitis, pancreatic adenocarcinoma, and intraabdominal metastases of adenocarcinomas, 14
- Fibrin, in malignant melanoma, interaction with coagulation and fibrinolysis pathways *in situ*, 516
- Fibrinogen, cryoprecipitate content of, variability in, 694
- Fibrinolysis
- in evolving acute myocardial infarction, treated by high-dose, brief-duration streptokinase, intracoronary or intravenous, 246
 - in malignant melanoma, interaction with coagulation pathways *in situ*, 516
- Fibroblasts, in synovitis, in rheumatoid arthritis, carboxyterminal domain of procollagen type I expressed in, 340
- Fibrocystic condition, juvenile papillomatosis of breast and, 599
- Fibrocystic pulmonary disease, in *Pneumocystis carinii* pneumonitis, radiologic-pathologic correlations and, 454
- Fine-needle aspirates, mammographically guided, estrogen receptor immunocytochemical assay in, 438
- Fine-needle aspiration
- of breast, monoclonal antibody B 72.3 in, 438
 - computed tomography guided, biopsy of deep-seated lesions by, 444
 - influence on workload activity of diagnostic electron microscopy laboratory, 444
 - of Langerhans' cell histiocytosis of bone, in children, 444
 - lymphoepithelial cysts of salivary glands and, 39
 - in management of gynecologic malignancies, recurrent, 444
 - of non-Hodgkin's lymphoma, 754

- of palpable breast masses, 445
 - of pediatric lesions, 443
 - value of electron microscopy in, 445
- Flow cytometer, automated, Sysmex R-1000 and, 70
- Flow cytometry
- bone marrow biopsies in, immunophenotypic analysis of cells isolated from, with failed bone marrow aspiration, 545
 - in colorectal adenocarcinoma, 615
 - cutaneous squamous cell carcinoma a. d keratoacanthoma and, DNA content and proliferative index in, 259
 - DNA ploidy in pancreatic neuroendocrine tumors and, 784
 - DNA quantitation by, image cytometry compared with, 322
 - image analysis confirmation of DNA aneuploidy in DNA distributions and, with wide coefficient of variation of G0/G1 peak, 637
 - immunophenotyping by, cell suspension preparation for, automated method for, 104
 - kappa light chain gene rearrangement and, in T-cell acute lymphoblastic leukemia, 563
 - in non-Hodgkin's lymphoma, DNA content and S-phase in, 449
 - nuclear DNA content as prognostic factor in breast cancer and, 471
 - plasmacytoid T-cells and, in reactive lymph node, 569
 - pleiomorphic adenoma and, 795
 - quality control in, S27
- Fontana-Masson-Mucin stain, for detection of cryptococcal organisms, 435
- Forensic pathology, polymerase chain reaction and, S49
- Fresh frozen plasma, thawed in water environment microwave oven, 451
- Fructosamine, modified nitroblue tetrazolium assay to improve clinical utility and, 446
- Fungal cells, giant, in pulmonary lesions of blastomycosis, 575
- Fungal infection, detected by percutaneous liver biopsy, in liver transplant recipient, 141

G

- Gamma glutamyl transpeptidase, assessment of, in low stage renal cell carcinoma, 560
- Gamma heavy chain disease
- free heavy chain of immunoglobulin G in urine and, 437
 - lymphocytic lymphoma with, IgM-lambda paraproteins and, 137
- Gas chromatography, headspace analysis of ethanol in plasma and, effect of sodium chloride concentration, water content, and protein on, 357
- Gastric carcinoma, lymphoepithelial, with Epstein-Barr virus demonstrated by polymerase chain reaction, 440
- Gastric heterotopia, *Campylobacter pylori* colonizing heterotopic gastric tissue and, in rectum, 144
- Gastric metaplasia, *Campylobacter pylori* colonizing heterotopic gastric tissue and, in rectum, 144
- Gastrinoma, DNA ploidy in, 784
- Gastritis, *Campylobacter pylori* colonizing heterotopic gastric tissue and, in rectum, 144
- Gastrointestinal tract
- Hodgkin's disease of, surgical pathology of, 449
 - lymphomas of, non-Hodgkin's, paraffin section immunostaining and, 233
 - mantle zone lymphoma/intermediate cell lymphoma of, 449
- Gaucher's disease, detection of 1226 mutation for, by color polymerase chain reaction, 788
- Gene amplification, polymerase chain reaction and, S49
- Gene probes, rapid isolation and identification of mycobacteria and, 452
- Gene rearrangement
- aggressive jejunal lymphoma and, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
 - fine-needle aspiration of non-Hodgkin's lymphoma and, 754

- in hemopathology, S38
- immunoglobulin, in childhood immunoblastic lymphoma, 286
- kappa light chain
 - in T-cell acute lymphoblastic leukemia, 563
 - in T-lineage chronic lymphocytic leukemia, 702
- Genotype, Richter's syndrome presenting as primary central nervous system lymphoma and, 117
- Gen-Probe, rapid isolation and identification of mycobacteria and, correlation of results with growth index, 415
- Germ cell tumor, testicular, expression of HLA class I antigens in, 202
- Germinal center, progressively transformed, with and without association to Hodgkin's disease, 219
- Giant cells
 - multinucleated, transitional cell carcinoma with, 441
 - osteoclast-like, in epithelioid hemangioendothelioma of anterior mediastinum, 813
- Glomerulonephritis, associated with heterogeneous fibrillary renal deposits, in aged hamsters, 441
- Glucagonoma, DNA ploidy in, 784
- Glucocerebrosidase, detection of 1226 mutation for Gaucher's disease and, by color polymerase chain reaction, 788
- Glucose concentration, effect on mean corpuscular volume measurement, 447
- Glycoprotein, monoclonal antihuman small bowel and colon specific mucin antibodies and, characterization of, 621
- Goblet cell, monoclonal antihuman small bowel and colon specific mucin antibodies and, characterization of, 621
- Granulocyte(s), aggregation of, spurious automated leukopenia due to, 572
- Granulocyte-macrophage colony-stimulating factor, in AIDS patients, correlation between manual and Technicon H-1 white blood cell differentials and, 447
- Granuloma, eosinophilic, fine-needle aspiration of, in children, 444
- Growth index, rapid isolation and identification of mycobacteria and, correlation with results from Gen-Probe and Bactec, 415
- Gynecologic malignancies, recurrent, fine-needle aspiration cytology in management of, 444

H

- H antigen, expression in infant thymuses and thymic neoplasias, immunohistochemistry and, 44
- Headspace analysis, gas chromatographic, of ethanol in plasma, effect of sodium chloride concentration, water content, and protein on, 357
- Heart
 - blood perfused working model of, immature myocardial preservation of, following global ischemia, 439
 - hemangiomas of, 439
- Hemangioblastoma, renal cell carcinoma distinguished from, by AgNor method, 555
- Hemangioendothelioma, epithelioid, of anterior mediastinum, with osteoclast-like giant cells, 813
- Hemangioma(s), of heart, 439
- Hematologic malignancies, immunophenotyping of, in paraffin-embedded tissue sections, S17
- Hematologic tests, abnormalities of leukocyte histograms and, resulting from microorganisms, 526
- Hematology
 - abnormalities of leukocyte histograms and, resulting from microorganisms, 526
 - automated differentials and, S11
 - histoplasmosis and, in acquired immunodeficiency syndrome, 367
 - polymerase chain reaction and, S49
- Hemoglobin, fetal, hereditary persistence of, presenting as fetal-maternal hemorrhage, 277
- Hemoglobin E- β -thalassemia, von Willebrand factor abnormality in, 391
- Hemorrhage
 - fetal-maternal, flow cytometric quantitation of
 - subarachnoid, rapid differentiation from traumatic lumbar puncture, using D-dimer assay, 403
- Hemostasis, tests of, S3
- Heparin response, activated partial thromboplastin time test for monitoring, 684
- Heparin therapy, one-stage method for assay of tissue factor activity of leukemic cell and, 679
- Hepatitis
 - with isolated serum antibody, to hepatitis B core antigen, 79
 - non-A, non-B
 - epidemiology of, 451
 - isolated serum antibody in, to hepatitis B core antigen, 79
 - screening for alanine aminotransferase and hepatitis B core antibody and, 533
 - testing blood supply for, 589
- Hepatitis B core antigen
 - isolated serum antibody to, 79
 - screening donor population for alanine aminotransferase and, 53
- Hepatitis B infection, with isolated serum antibody, to hepatitis B core antigen, 79
- Hepatocellular carcinoma, ultrastructural and immunohistochemical study of, 111
- Herpesvirus, *in situ* hybridization studies for viral nucleic acids and, in heart and lung allograft biopsies, 675
- Herpesvirus-6, mononucleosis-like illnesses not resulting from Epstein-Barr or cytomegalovirus and, clinical and laboratory findings and, 776
- Herpetic whitlow, in human immunodeficiency virus infection, 828
- Hispanic people, screening for alanine aminotransferase and hepatitis B core antibody, 533
- Histocompatibility antigens, expression in germ cell testicular cancer, 202
- Histogenesis
 - alveolar soft part sarcoma and, 32
 - clear cell sarcoma and, 26
- Histologic subtypes, of thymoma, prognostic implication of, 183
- Histologic variants, in malignant melanoma, 731
- Histopathology
 - experimental murine invasive pulmonary aspergillosis and, 510
 - large cell carcinoma of lung and, histopathologic and immunohistochemical subtyping and, prognostic implications of, 176
- Histoplasmosis, disseminated, in acquired immunodeficiency syndrome, hematologic and bone marrow manifestations of, 367
- Hodgkin's disease
 - differentiation of T-cell lymphoma from, mitotic rate and S-phase analysis and, 227
 - gastrointestinal, surgical pathology of, 449
 - Hodgkin's disease variant of Richter's syndrome and, 333
 - progressive transformation of germinal centers with and without association to, 219
- Hospital laboratory computer interface, design, implementation, and usage patterns of, 454
- Human chorionic gonadotropin
 - immunocytochemical staining for, prediction of malignancy in insulinomas and, 273
 - intact versus beta-specific, comparison of immunoradiometric assays for, 347
- Human chorionic gonadotropin assays, 432
- Human endometrium, expression of leukocyte adhesion molecules in, 183
- Human erythroblastic cell line, diagnosis of erythroleukemia and, murine monoclonal antibody for, 387
- Human herpesvirus-6, mononucleosis-like illnesses not resulting from Epstein-Barr or cytomegalovirus and, clinical and laboratory findings and, 776
- Human herpesvirus-6 and human disease, 836

Human immunodeficiency virus-1
 antibody to, sensitivity and interobserver variability of Recombinogen-HIV-1 LA test and, 538
 in liver tissues of AIDS patients, immunohistochemical studies of, 452
 sensitivity and interobserver variability of Recombinogen-HIV-1 LA test and, 538
 Human immunodeficiency virus, herpetic whitlow and, 828
 Human immunodeficiency virus infection, malignant peripheral neuroectodermal tumor and, 818
 Human immunodeficiency virus-related protein, detection in testes and prostates, in AIDS patients, 196
 Human papillomavirus, lack of, in prostate cancer, 441
 Hybridization
 automated versus manual DNA extraction and, 749
in situ
 cytomegalovirus detection and, in interstitial pneumonitis, 491
 in hematopathology, 544
 viral nucleic acids and, in heart and lung allograft biopsies, 675
 Hyperaggregation, pseudo-diagnosis of, 162

I

Ileocecal valve, lipohyperplasia of, 440
 Image analysis
 comparison of DNA quantitation by image and flow cytometry and, 322
 confirmation of DNA aneuploidy and, in flow cytometric DNA distributions, having wide coefficient of variation of G0/G1 peak, 637
 Image cytometry, DNA quantitation by, flow cytometry compared with, 322
 Immune thrombocytopenia, detecting platelet-associated immunoglobulin G in, solid phase red cell adherence test for, 552
 Immunoassay
 fluorescent, radiation partition, of thyrotropin, 84
 for intact versus beta-specific human chorionic gonadotropin, 347
 Immunocytochemistry
 diagnosis of erythroleukemia and, murine monoclonal antibody for, 387
 estrogen receptors and, in mammographically guided fine-needle aspirates, 438
 immunophenotyping of acute leukemias and, using paraffin-embedded tissue sections, 502
 improved avidin-biotin immunoperoxidase method and, for terminal deoxyribonucleotidyl transferase and immunophenotypic characterization of blood cells, 670
 pulmonary lymphangioleiomyomatosis and, steroid receptors and, 609
 staining for human chorionic gonadotropin subunits and, prediction of malignancy in insulinomas and, 273
 Immunoelectrophoresis, crossed, von Willebrand factor abnormality and, in hemoglobin E- β^0 thalassemia, 391
 Immunoenzymetric assay, for maternal-serum alpha-fetoprotein screening, 352
 Immunoglobulin G
 free heavy chain of, in urine, confusion with gamma heavy chain disease, 437
 platelet-associated, solid phase red cell adherence test for detecting, in immune thrombocytopenia, 552
 Immunoglobulin gene rearrangement, in childhood immunoblastic lymphoma, 286
 Immunoglobulin genes, fine-needle aspiration of non-Hodgkin's lymphoma and, 754
 Immunohistochemistry
 aggressive jejunal lymphoma and, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
 of alveolar soft part sarcoma, 32

benign mesenchymoma of round ligament and, 421
 in bronchial gland cell type adenocarcinoma of lung, 20
 cytomegalovirus detection and, in interstitial pneumonitis, 491
 diagnostic utility of desmin and, 305
 DNA polymerase α and, as marker for proliferating cells, in normal and neoplastic human tissues, 643
 in epithelioid hemangioendothelioma of anterior mediastinum, with osteoclast-like giant cells, 813
 H antigen, peanut agglutinin receptor, and *Saphora japonica* receptor expression and, in infant thymuses and thymic neoplasias, 44
 hepatic giant cell carcinoma and, 111
 human immunodeficiency virus-1 in liver tissues and, in acquired immunodeficiency syndrome, 452
 immunophenotyping of hematologic neoplasms, in paraffin-embedded tissue sections, S17
 large cell carcinoma of lung and, histopathologic and immunohistochemical subtyping and, prognostic implications of, 176
 localization of T antigen in ovarian tumors and, 315
 melanotic schwannoma of bone and, 424
 mesothelial cell lymph node inclusions and, in mediastinal nodes, mimicking metastatic carcinoma, 741
 morphologic diversity in malignant melanomas and, 731
 in non-Hodgkin's lymphomas of gastrointestinal tract, 233
 pancreatic secretory trypsin inhibitor and, in gastric carcinomas, 8
 paraffin section, detection of B- and T-cells in, diagnostic utility of commercially obtained 4KB5 and UCHL-1 and, 58
 pleomorphic adenoma and, 795
 in primary noncutaneous T-cell lymphoma, prognostic indicators in, stage versus morphologic subtype as, 49
 progressive transformation of germinal centers with and without association to Hodgkin's disease and, 219
 prostatic adenocarcinoma and, immunoreactivity to monoclonal antibody B72.3 and, 466
 pulmonary blastoma and, comparison with fetal lung in pseudoglandular stage, 167
 Immunohistology, feto-acinar pancreatic protein and, in normal pancreas, chronic pancreatitis, pancreatic adenocarcinoma, and intraabdominal metastases of adenocarcinomas, 14
 Immunoperoxidase
 detection of antigens to *Chlamydia trachomatis* in association with cystitis and, 363
 expression of HLA class I antigens in germ cell testicular cancer and, 202
 improved avidin-biotin method and, for terminal deoxyribonucleotidyl transferase and immunophenotypic characterization of blood cells, 670
 Immunoperoxidase diagnosis, of Rocky Mountain spotted fever, *Rickettsia rickettsii* in fixed cutaneous specimens and, 410
 Immunophenotype, Richter's syndrome presenting as primary central nervous system lymphoma and, 117
 Immunophenotyping
 cells isolated from bone marrow biopsies and, with failed bone marrow aspiration, 545
 by flow cytometry, cell suspension preparation for, automated method for, 104
 of hematologic malignancies and, in paraffin-embedded tissue sections, S17
 ki-1-positive non-Hodgkin's lymphomas and, 327
 plasmacytoid T-cells and, in reactive lymph node, 569
 quality control and, S27
 Impedance aggregometer, adherence to probe of, ristocetin-induced platelet aggregation and, 548
 Infectious mononucleosis, CD30 antigen expression and histologic considerations in, 698
 Inflammation, periprosthetic, superoxide anion and, produced by synovial-derived macrophages, 441
In situ hybridization
 cytomegalovirus detection and, in interstitial pneumonitis, 491

- in hematopathology, S44
 - viral nucleic acids and, in heart and lung allograft biopsies, 675
 - Instrumentation, automated differentials and, S11
 - Insulinoma
 - DNA ploidy in, 784
 - prediction of malignancy in, immunocytochemical staining for human chorionic gonadotropin subunits and, 273
 - Intercellular cohesion, histopathologic and immunohistochemical subtyping and, large cell carcinoma of lung and, prognostic implications of, 176
 - Intermediate cell lymphoma, of gastrointestinal tract, 449
 - Intermediate filaments, diagnostic utility of desmin and, 305
 - Intervertebral disc infection, caused by *Pseudallescheria boydii*, presenting as persistent neutrophilic meningitis, 453
 - Intranasal occlusion, experimental murine invasive pulmonary aspergillosis and, 510
 - Intravenous drugs, co-administration with packed red blood cells, safety of, 450
 - Iron deficiency, serum tests for evaluating, 296
 - in hospitalized patients, 240
 - Ischemia, global, immature myocardial preservation in, by superoxide dismutase, 439
 - Isozyme, aldolase C, expression in renal cell carcinoma, 631
- K**
- Kappa light chain gene rearrangement
 - in T-cell acute lymphoblastic leukemia, 563
 - in T-lineage chronic lymphocytic leukemia, 702
 - Karyotype
 - banding resolution of chromosome preparations and, for prenatal diagnosis, 765
 - in clear cell sarcoma, 26
 - 4KB5, diagnostic utility of, in detection of B- and T-cells, in embedded tissue sections, 58
 - Keratoacanthoma, DNA content and proliferative index in, 259
 - Ki-1 antigen
 - in acute infectious mononucleosis, 698
 - non-Hodgkin's lymphomas positive for, immunophenotypic, ultrastructural, and morphometric study of, 327
 - Kliehauer-Betke test, hereditary persistence of fetal hemoglobin and, presenting as fetal-maternal hemorrhage, 277
- L**
- Laboratory medicine, new technology in, S9
 - Laboratory test, determining usefulness of, quality assurance focused reviews as cost effective tool in, 454
 - Lactate dehydrogenase isoenzymes, in cerebrospinal fluid, diagnostic value of, 446
 - Lactoferrin, in bronchial gland cell type adenocarcinoma of lung, 20
 - Langerhans' cell histiocytosis, of bone, fine-needle aspiration of, in children, 444
 - Large cell carcinoma, of lung, histopathologic and immunohistochemical subtyping and, prognostic implications of, 176
 - Latex agglutination, sensitivity and interobserver variability of ecombinogen-HIV-1 LA test and, 538
 - LD50, experimental murine invasive pulmonary aspergillosis and, 510
 - Leu-22, 299
 - Leukemia
 - acute lymphoblastic, T-cell, kappa light chain gene rearrangement in, 563
 - acute myeloid
 - FAB subclasses of, incidence of Ras mutations in, 448
 - immunophenotyping of, using paraffin-embedded tissue sections, 502
 - acute nonlymphoid, tissue factor activity of, one-stage method for assay of, 679
 - acute undifferentiated, monoclonal antibody for diagnosis of, 387
 - bone marrow biopsies in, immunophenotypic analysis of cells isolated from, with failed bone marrow aspiration, 545
 - chronic lymphocytic
 - Hodgkin's disease variant of Richter's syndrome and, 333
 - Richter's syndrome and, 117
 - T-lineage, kappa immunoglobulin light chain gene rearrangement in, 702
 - hand-mirror cell, *in vitro* induced, 448
 - immunophenotyping of hematologic malignancies and, in paraffin-embedded tissue sections, S17
 - T-acute lymphocytic, T-cell receptor expression in, 495
 - T-lymphoblastic, T-cell receptor expression in, 495
 - Leukocyte(s), abnormalities of leukocyte histograms and, resulting from microorganisms, 526
 - Leukocyte adhesion molecules, expression in human endometrium, 183
 - Leukocyte count
 - abnormalities of leukocyte histograms and, resulting from microorganisms, 526
 - automated, spurious automated leukopenia and, due to *in vitro* granulocyte aggregation, 572
 - Leukopenia, automated, spurious, due to *in vitro* granulocyte aggregation, 572
 - Light microscopy, in epithelioid hemangioendothelioma of anterior mediastinum, with osteoclast-like giant cells, 813
 - Lipohyperplasia, of ileocecal valve, 440
 - Liver
 - non-neoplastic, distinguishing from hepatocellular carcinoma, 444
 - pancreatic metaplasia in, 440
 - Liver transplantation
 - cyclosporine therapy and, histologic manifestation of, 436
 - disseminated coccidioidomycosis and, detected by percutaneous liver biopsy, 141
 - plasma exchange for, 451
 - utilization and management of intraoperative laboratory work during, 451
 - Localization, of microcalcifications, in breast biopsy specimens, 557
 - Lumbar puncture, traumatic, rapid differentiation of subarachnoid hemorrhage from, using D-dimer assay, 403
 - Lung
 - adenocarcinoma of, bronchial gland cell type, clinicopathologic and immunohistochemical characteristics of, 20
 - large cell carcinoma of, histopathologic and immunohistochemical subtyping and, prognostic implications of, 176
 - large cell neuroendocrine carcinoma of, 439
 - reliability of TD_x fetal lung maturity assay and, in maternal diabetes, 446
 - Lyme disease
 - diagnosis of, by detection of *Borrelia burgdorferi* DNA in synovial fluid, by polymerase chain reaction, 453
 - serodiagnosis of, specificity of commercial assays in, 453
 - Lymphadenopathy
 - human immunodeficiency virus, in people at high risk for human immunodeficiency virus infection, 208
 - mediastinal, mimicking metastatic carcinoma, 741
 - Lymphangioleiomyomatosis, pulmonary, steroid receptors and, immunocytochemical study of, 609
 - Lymph node(s)
 - in acquired immunodeficiency syndrome, 208
 - reactive, plasmacytoid T-cells in, 569
 - Lymph node inclusions, mesothelial cell, in mediastinal lymph nodes, mimicking metastatic carcinoma, 741
 - Lymphocyte, large granular, aggressive jejunal lymphoma of, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124

- Lymphocyte subsets, rapid analysis of, in cord blood, 263
- Lymphocytic infiltration, in lymphocytic mastopathy, 725
- Lymphocytic mastopathy, as autoimmune disease, 834
- Lymphoma
- anaplastic, large cell, 698
 - bone marrow biopsies in, immunophenotypic analysis of cells isolated from, with failed bone marrow aspiration, 545
 - of central nervous system, Richter's syndrome presenting as, 117
 - detection of B- and T-cells in, diagnostic utility of commercially obtained 4KB5 and UCHL-1 and, 58
 - gastrointestinal, non-Hodgkin's, paraffin section immunostaining and, 233
 - immunoblastic
 - in chronically immunosuppressed renal transplant recipient, 280
 - oligoclonal immunoglobulin heavy chain gene rearrangement in, in childhood, 286
 - immunophenotyping of hematologic malignancies and, in paraffin-embedded tissue sections, S17
 - intermediate cell, of gastrointestinal tract, 449
 - jejunal, aggressive, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
 - Ki-1-positive, 698
 - lymphocytic, gamma heavy chain disease with, IgM-lambda paraproteins and, 137
 - malignant, double gammopathy and myeloproliferative disorder coexistent with, 132
 - mantle cell, of gastrointestinal tract, 449
 - molecular gene rearrangement analysis and, in hemopathology, S38
 - non-Hodgkin's, 298
 - B-cell, activated T-cell subsets in, 449
 - DNA content and S-phase in, flow cytometric study of, 449
 - Ki-1-positive, immunophenotypic, ultrastructural, and morphometric study of, 327
 - prognostic indicators in, stage versus morphologic subtype as, 49
 - phenotyping of T-cell proliferations and, in formalin-fixed paraffin-embedded tissues, 382
 - T-cell
 - aggressive, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
 - in chronically immunosuppressed renal transplant recipient, 280
 - differentiation from Hodgkin's disease, mitotic rate and S-phase analysis and, 227
 - plasmacytoid, associated with chronic myeloproliferative disorders, macrophage/monocyte origin of, 822
 - primary noncutaneous, prognostic indicators in, stage versus morphologic subtype as, 49
- Lymphoproliferation, atypical, oligoclonal immunoglobulin heavy chain gene rearrangement and, in childhood immunoblastic lymphoma, 286
- M**
- Macrophage(s), synovial-derived, superoxide anion produced by, periprosthetic inflammation characterized through measurement of, 441
- Macrophage/monocyte lineage, plasmacytoid T-cell lymphoma associated with chronic myeloproliferative disorders and, 822
- Male genital tract, detection of human immunodeficiency virus-related protein in, in AIDS patients, 196
- Malignancy. *See also specific malignancies*
- immunoradiometric assays for human chorionic gonadotropin and, intact versus beta-specific, 347
- Malignant cells, in serous effusions, immunocytochemical panel for identification of, 436
- Malignant effusions, monoclonal antibodies for assessment of estrogen and progesterone receptors in, 437
- Mammary mixed tumor, 792
 - immunohistochemical, flow cytometric, and ultrastructural study of, 795
- Mantle cell lymphoma, of gastrointestinal tract, 449
- Marijuana, screening methods for measurement of, clinical and analytical evaluation of, 446
- Mastitis, lymphocytic mastopathy and, as autoimmune disease, 725, 834
- Mastopathy, lymphocytic, as autoimmune disease, 725, 834
- MDR1, in esophageal adenocarcinoma, 1
- Mean corpuscular volume measurement, effect of glucose measurement on, 447
- Mean platelet volume
 - anticoagulants and, Coulter Counter S-Plus STKR analyzer and, 760
 - effect of bacteremia on automated platelet measurements and, in neonates, 391
- Mediastinum, epithelioid hemangioendothelioma of, with osteoclast-like giant cells, 813
- Melanoma, malignant
 - interaction with coagulation and fibrinolysis pathways *in situ*, 516
 - metastatic, cytologic diagnosis of, 443
 - morphologic diversity in, 731
- Melanosis, of uterine cervix, after cryotherapy for epithelial dysplasia, 802
- Melanotic schwannoma, of bone, melanotic, clinicopathologic, immunohistochemical, and ultrastructural features of, 424
- Mesenchymoma, benign, of round ligament, immunohistochemistry and, 421
- Mesothelium, lymph node inclusions in, in mediastinal nodes, mimicking metastatic carcinoma, 741
- Metaplasia
 - cartilaginous, in calcific aortic valve disease, 809
 - squamous, amniotic, acute inflammatory exudate in chorioamnionitis associated with, 582
- Metastases
 - bone marrow aspirate and biopsy concurrence in, 449
 - cerebellar, extrarenal Wilms' tumor with, spina bifida and, 805
 - intraabdominal, of adenocarcinomas, feto-acinar pancreatic protein in, immunohistologic study of, 14
 - of malignant melanoma, cytologic diagnosis of, 443
- Microcalcifications, localizing in breast biopsy specimens, 557
- Microcomputer, dBASE III surgical pathology reporting and encoding system and, 91
- Microorganisms, abnormalities of leukocyte histograms resulting from, 526
- Mitoses, differentiation of T-cell lymphoma from Hodgkin's disease and, 227
- Molecular analysis, aggressive jejunal lymphoma and, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
- Monoclonal antibodies
 - for assessment of estrogen and progesterone receptors, in malignant effusions, 437
 - for diagnosis of erythroleukemia, 387
 - immunocytochemical detection of progesterone receptor and, in breast carcinoma, 378
 - immunohistochemical detection of antigens to *Chlamydia trachomatis* in association with cystitis and, 363
 - improved avidin-biotin immunoperoxidase method and, for terminal deoxynucleotidyl transferase and immunophenotypic characterization of blood cells, 670
 - rapid analysis of lymphocyte subsets in cord blood and, 263
 - rapid detection of cytomegalovirus early nuclear antigen and, comparison of assays for, 373
 - small bowel, antihuman, characterization of, 621
- Monoclonal antibody B 72.3, in breast fine-needle aspirates, 438
- Monoclonal antibody B72.3, immunoreactivity to, prostatic adenocarcinoma and, 466

- Monoclonal antibody HMB-45, evaluation of blue nevi by, 438
 Monoclonal antibody Leu-22, 299
 Monoclonal immunoradiometric assays, for intact versus beta-specific human chorionic gonadotropin, 347
 Mononucleosis, infectious, CD30 antigen expression and histologic considerations in, 698
 Mononucleosis-like illnesses, not resulting from Epstein-Barr or cytomegalovirus, clinical and laboratory findings resulting from human herpes virus-6 and, 776
 Morphologic subtype, in primary noncutaneous T-cell lymphoma, as prognostic indicator, 49
 Morphometry
 ki-1-positive non-Hodgkin's lymphomas and, 327
 of skeletal muscle, in sudden infant death syndrome, 442
 tumor cellularity and, in breast carcinoma, 98
 Mucin antibodies, colon specific, characterization of, 621
 Multidrug resistance, P-glycoprotein and, 156
 Multidrug resistance gene, in esophageal adenocarcinoma, 1
 Murine model, of invasive pulmonary aspergillosis, 510
 Muscle actin, alveolar soft part sarcoma and, immunohistochemistry of, 32
 Mycobacteria, rapid isolation and identification of
 BACTEC and gene probes and, 452
 Gen-Probe and Bactec for, correlation of results with growth index, 415
 Myeloma, plasma cell, with cleaved, multilobated, and monocytoid nuclei, 657
 Myeloproliferative disorders
 double gammopathy and malignant lymphoma coexistent with, 132
 plasmacytoid T-cell lymphoma associated with chronic myeloproliferative disorders, 822
 macrophage/monocyte origin of, 822
 Myocardial preservation, immature, by superoxide dismutase, following global ischemia, 439
 Myocarditis, giant cell, associated with silicone, 148
 Myxoma(s), atrial, DNA analysis of, 439
- N**
- Neonates, testing for unexpected red cell antibodies, serum volumes and, 267
 Neoplasia, thymic, H antigen, peanut agglutinin receptor, and *Saphora japonica* expression in, immunohistochemistry and, 44
 Neoplasm, human, DNA polymerase α and, as marker for proliferating cells, 643
 Neoplasms. *See also specific neoplasms*; Tumor(s)
 pancreatic, DNA ploidy in, 784
 Neoplastic astrocytes, negative expression of antikeratin antibody CAM5.2 in, 442
 Nephelometry, for detection of low level urinary albumin, 405
 Nerve sheath tumors, clinicopathologic, immunohistochemical, and ultrastructural features of, 424
 Nesidioblastosis, of pancreas, 161
 Nested polymerase chain reaction assays, in detection of human immunodeficiency virus-1 proviral DNA, 437
 Neural network, classification of individual cells by, screening of cytology specimens by, 442
 Neural tube defect, immunoenzymatic assay for maternal-serum alpha-fetoprotein screening and, 352
 Neuroectodermal tumor, peripheral, malignant, human immunodeficiency virus infection and, 818
 Neuroendocrine cells, neoplasms of, DNA ploidy in, 784
 Neutrophils, assays of function of, effect of cell separation procedures on, 662
 Nitroblue tetrazolium assay
 to improve clinical utility of fructosamine, 446
 neutrophil function and, effect of cell separation procedures on, 662

- Nonhemolytic streptococci, isolated from blood and cerebrospinal fluid, in pediatric population, clinical relevance of, 270
 Non-Hodgkin's lymphoma, 298
 B-cell, activated T-cell subsets in, 449
 DNA content and S-phase in, flow cytometric study of, 449
 Ki-1-positive, immunophenotypic, ultrastructural, and morphometric study of, 327
 prognostic indicators in, stage versus morphologic subtype as, 49
 Nuclei, cleaved, multilobated, and monocytoid, in plasma cell myeloma, 657
 Nucleolar organizer regions, hemangioblastoma and renal clear cell carcinoma distinguished and, by AgNor method, 555
 Nucleoli, hemangioblastoma and renal clear cell carcinoma distinguished and, by AgNor method, 555

O

- Oncogenes, *in situ* hybridization and, S44
 Orbital tumors, fine-needle cytology of, 100
 Osteoclast-like giant cells, in epithelioid hemangioendothelioma of anterior mediastinum, 813
 Ovarian carcinoma
 transitional cell, primary, diagnostic and prognostic considerations in, 586
 with transitional cell carcinoma pattern, 457
 Ovarian tumors, localization of T antigen in, immunohistochemical and ultrastructural, 315

P

- Packed red blood cells, co-administration with intravenous drugs, safety of, 450
 Pancreas
 adenocarcinoma of, feto-acinar pancreatic protein in, immunohistochemical study of, 14
 endocrine tumor of, immunocytochemical staining for human chorionic gonadotropin subunits and, prediction of malignancy and, 273
 feto-acinar pancreatic protein in, immunohistologic study of, 14
 metaplasia of, in liver, 440
 neoplasms of, DNA ploidy in, 784
 nesidioblastosis of, 161
 Pancreatic secretory trypsin inhibitor, in gastric carcinomas, immunohistochemical study on, 8
 Pancreatitis, chronic, feto-acinar pancreatic protein in, immunohistologic study of, 14
 Papilloma, mammary, 792
 immunohistochemical, flow cytometric, and ultrastructural study of, 795
 Papillomatosis, of breast, juvenile, 599
 Paraffin-embedded sections
 DNA ploidy in pancreatic neuroendocrine tumors and, 784
 formalin-fixed, phenotyping of T-cell proliferations in, 382
 immunophenotyping of acute leukemias and, 502
 immunophenotyping of hematologic malignancies in, S17
 Paraffin-reactive antibodies, in non-Hodgkin's lymphomas of gastrointestinal tract, 233
 Parasites, from stool examination, diagnostic yield of, 453
 Peanut agglutinin receptor, expression in infant thymuses and thymic neoplasias, immunohistochemistry and, 44
 Pediatric patients
 fine-needle aspiration of lesions in, 443
 Langerhans' cell histiocytosis of bone in, fine-needle aspiration of, 444
 Peripheral blood, histoplasmosis and, in acquired immunodeficiency syndrome, 367
 Peritoneum, surface carcinoma of, serous, cytology of, 443
 Peroxidase, endogenous, improved avidin-biotin immunoperoxidase

- method and, for terminal deoxyribonucleotidyl transferase and immunophenotypic characterization of blood cells, 670
- Peroxidase-labeled antibody method, aldolase C isozyme expression in renal cell carcinoma and, 631
- P-glycoprotein
in esophageal adenocarcinoma, 1
multidrug resistance and, 156
- Phagocytosis, neutrophil function assays and, effect of cell separation procedures on, 662
- Phenothiazines, heterogeneity of laboratory test results for antiphospholipid antibodies and, 771
- Phenytoin, prediction of free levels based on total phenytoin/albumin ratios, 436
- Plasma
fresh frozen, thawed in water environment microwave oven, 451
gas chromatographic headspace analysis of ethanol in, effect of sodium chloride concentration, water content, and protein on, 357
- Plasma cells, polymorphous, in plasma cell myeloma, 657
- Plasma exchange
in cardiac transplantation, 451
for liver transplantation, 451
- Platelet(s)
in Down's syndrome, 447
measurement of von Willebrand factor and, platelet isolation method and, 400
- Platelet aggregation, ristocetin-induced, adherence to probe of impedance aggregometer and, 548
- Platelet antibodies, platelet-associated immunoglobulin G and, solid phase red cell adherence test for detecting, 552
- Platelet distribution width, effect of bacteremia on automated platelet measurements and, in neonates, 391
- Platelet inhibitors, measurement of von Willebrand factor and, platelet isolation method and, 400
- Pleuropulmonary blastoma, immunohistochemical analysis, comparison with fetal lung in pseudoglandular stage and, 167
- Ploidy
aggressive jejunal lymphoma and, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
DNA, in pancreatic neuroendocrine tumors, 784
- Pneumocystis carinii*
disseminated, presentation in acquired immunodeficiency syndrome, 454
pneumonitis and, AIDS-related, fibrocystic pulmonary disease in, radiologic-pathologic correlations and, 454
- Pneumonia, interstitial, cytomegalovirus detection in, 491
- Polymerase chain reaction
color, detection of 1226 mutation for Gaucher's disease by, 788
cytomegalovirus detection and, in interstitial pneumonitis, 491
detection of *Borrelia burgdorferi* DNA by, in synovial fluid, diagnosis of Lyme disease by, 453
detection of Chlamydia by, evaluation of primers for, 453
Epstein-Barr virus demonstrated by, lymphoepithelial carcinoma of stomach with, 440
theory and applications of, 549
- Polyp, fibroepithelial, of vagina, antigen profile of, 604
- Polyposis, hyperplastic, eroded, of rectosigmoid, as sequel to rectal prolapse, 440
- Pregnancy, immunoradiometric assays for human chorionic gonadotropin and, intact versus beta-specific, 347
- Prenatal diagnosis
banding resolution of amniotic cell chromosome preparations and, 765
immunoenzymatic assay for maternal-serum alpha-fetoprotein screening and, 352
- Procollagen type I, expression of carboxyterminal domain of, by fibroblasts, in rheumatoid arthritis, 340
- Progesterone receptors
in breast carcinoma, immunocytochemical detection of, monoclonal antibodies and, 378
in malignant effusions, monoclonal antibodies for assessment of, 437
- Prognosis
in large cell carcinoma of lung, histopathologic and immunohistochemical subtyping and, 176
T-cell lymphoma and, primary noncutaneous, stage versus morphologic subtype and, 49
thymoma histologic subtyping and, 183
- Prognostic factors
in acquired immunodeficiency syndrome, 208
DNA content and proliferative activity as, in cystosarcoma phyllodes, of breast, 480
nuclear DNA content as, in breast cancer, 471
- Proliferating cells, DNA polymerase α as marker for, in normal and neoplastic human cells, 643
- Proliferative fraction, differentiation of T-cell lymphoma from Hodgkin's disease and, 227
- Proliferative index
in cutaneous squamous cell carcinoma and keratoacanthoma, 259
DNA content and, in cystosarcoma phyllodes, of breast, 480
- Prostate
adenocarcinoma of, immunoreactivity to monoclonal antibody B72.3 and, 466
cancer of, lack of human papillomavirus in, 441
detection of human immunodeficiency virus-related protein in, in AIDS patients, 196
- Prosthesis, giant cell myocarditis associated with silicone and, 148
- Protein, effect on gas chromatographic headspace analysis of ethanol in plasma, 357
- Protein electrophoresis, optimum urine collections for detection of Bence Jones protein and, 689
- Protein S, plasma levels of, effects of L-asparaginase on, 437
- Proteinuria, Behring nephelometer for detection of, 405
- Protozoa, intestinal, comparison with detached ciliary tufts, 541
- Psmomma bodies, melanotic schwannoma of bone and, 424
- Pseudallescheria boydii*, intervertebral disc infection and endophthalmitis caused by, presenting as persistent neutrophilic meningitis, 453
- Pulmonary blastoma, 294
immunohistochemical analysis, comparison with fetal lung in pseudoglandular stage and, 167
- Pulmonary embolism, diagnosis of, at autopsy, 486
- Pulmonary hypoplasia, diagnostic criteria, incidence, and associated conditions and, 439
- Purpura, immune thrombocytopenic, detecting platelet-associated immunoglobulin G in, solid phase red cell adherence test for, 552
- Pyriform sinus, signet-ring squamous cell carcinoma of, 592

Q

- Quality assurance focused reviews, in determining usefulness of laboratory test, 454
- Quality assurance monitoring, computerized error-tracking system for, 454
- Quality control, in flow cytometry, 527
- Quantitative microscopy, tumor cellularity and, in breast carcinoma, 98
- Quinine reductase isozyme, from forestomachs of mice exposed to benzo(a)pyrene, isolation and purification of, 455

R

- Ras mutations, incidence in acute myeloid leukemia, FAB subclasses of, 448
- Recombinogen-HIV-1 LA test, sensitivity and interobserver variability of, 538

- Rectal prolapse, eroded hyperplastic polyposis of rectosigmoid as sequel to, 440
- Rectosigmoid, eroded hyperplastic polyposis of, as sequel to rectal prolapse, 440
- Rectum, *Campylobacter pylori* colonizing heterotopic gastric tissue in, 144
- Renal cell carcinoma
expression of aldolase C isozyme in, 631
hemangioblastoma distinguished from, by AgNor method, 555
low stage, assessment of serum gamma glutamyl transpeptidase levels in, 560
- Renal deposits, fibrillary, heterogeneous, glomerulonephritis associated with, in aged hamsters, 441
- Renal pelvis, transitional cell carcinoma of, cytology in diagnosis of, 443
- Renal transplant, immunoblastic lymphoma and, T-cell type, in chronically immunosuppressed renal transplant recipient, 280
- Residency training, 706
- Reticulocyte(s), in human preserved blood, as control material for automated reticulocyte counters, 109
- Reticulocyte counting, automated, Sysmex R-1000 and, 70
- Reticulocyte maturation, reticulocyte counters and, reticulocytes in human preserved blood as control material for, 109
- Rhabdomyoma, cardiac, 438
- Rhabdomyosarcoma(s), DNA analysis in, 442
- Rheumatoid arthritis, fibroblasts in, carboxyterminal domain of procollagen type I expressed in, 340
- Richter's syndrome
Hodgkin's disease variant of, 333
presenting as primary central nervous system lymphoma, 117
- Rickettsia rickettsii*, in fixed cutaneous specimens, in Rocky Mountain spotted fever, rapid immunoperoxidase demonstration of, 410
- Ristocetin, platelet aggregation induced by, adherence to probe of impedance aggregometer and, 548
- Rocky Mountain spotted fever, *Rickettsia rickettsii* in fixed cutaneous specimens and, rapid immunoperoxidase demonstration of, 410
- Round ligament, of uterus, benign mesenchymoma of, immunohistochemistry and, 421

S

- Salivary glands, lymphoepithelial cysts of, histologic and cytologic features of, 39
- Saphora japonica* receptor, expression in infant thymuses and thymic neoplasias, immunohistochemistry and, 44
- Sarcoma
alveolar, soft part, immunohistochemistry of, 32
clear cell, chromosomal abnormalities in, 26
- Schwannoma, of bone, melanotic, clinicopathologic, immunohistochemical, and ultrastructural features of, 424
- Screening test, sensitivity and interobserver variability of Recombinogen-HIV-1 LA test and, 538
- Sensitivity
definition of, 300
evaluating diagnostic tests with imperfect standards and, 252
- Serology, histoplasmosis and, in acquired immunodeficiency syndrome, 367
- Serous effusions, identification of malignant cells in, immunocytochemical panel for, 436
- Serum/cell ratio, testing neonates for unexpected red cell antibodies and, 267
- Serum enzyme levels, transplanted bone marrow and, engraftment of, 445
- Serum tests, for iron deficiency, evaluating, 296
- Shigella bacteremia, 452
- Sickle cell anemia, anti-Do^b in, 450
- Sideroblasts, ringed, silver stain for, 448
- Silicone, giant cell myocarditis associated with, 148
- Silver stain, for ringed sideroblasts, 448
- Skeletal muscle, in sudden infant death syndrome, morphometry of, 442
- Small intestine
lymphoma of, aggressive, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
monoclonal antihuman small bowel and colon specific mucin antibodies and, characterization of, 621
- SNOMED, dBASE III surgical pathology reporting and encoding system and, 91
- Sodium chloride, effect on gas chromatographic headspace analysis of ethanol in plasma, 357
- Soft tissue neoplasms, clinicopathologic, immunohistochemical, and ultrastructural features of, 424
- Solid-phase chemistry system, assaying for urinary enzymes and, 445
- Southern blot analysis, fine-needle aspiration of non-Hodgkin's lymphoma and, 754
- Southern transfer, automated versus manual DNA extraction and, 749
- Specificity
of commercial assays, in serodiagnosis of Lyme disease, 453
evaluating diagnostic tests with imperfect standards and, 252
- Spectroscopy, x-ray energy, giant cell myocarditis associated with silicone and, 148
- S-phase analysis
differentiation of T-cell lymphoma from Hodgkin's disease and, 227
in non-Hodgkin's lymphoma, flow cytometry and, 449
- Spina bifida, extrarenal Wilms' tumor with cerebellar metastasis and, 805
- Squamous cell carcinoma
cutaneous, DNA content and proliferative index in, 259
signet-ring, of pyriform sinus, 592
- Squamous metaplasia, amniotic, acute inflammatory exudate in chorioamnionitis associated with, 582
- Steroid hormone receptors, pulmonary lymphangioleiomyomatosis and, immunocytochemical study of, 609
- Steroid receptors
in breast carcinoma, immunocytochemical detection of, monoclonal antibodies and, 378
fibroepithelial polyp of vagina and, 604
- Stomach
carcinoma of, pancreatic secretory trypsin inhibitor in, immunohistochemical study on, 8
lymphoepithelial carcinoma of, with Epstein-Barr virus demonstrated by polymerase chain reaction, 440
- Stool examination, parasites from, diagnostic yield of, 453
- Streptococci, viridans and nonhemolytic, isolated from blood and cerebrospinal fluid, in pediatric population, clinical relevance of, 270
- Streptokinase, high-dose, brief-duration, in acute myocardial infarction, coagulation and fibrinolytic changes and, 246
- Subtyping, histopathologic and immunohistochemical, large cell carcinoma of lung and, prognostic implications of, 176
- Sudden infant death syndrome
skeletal muscle in, morphometry of, 442
type IV Ehlers-Danlos syndrome presenting as, 579
- Superoxide anion, periprosthetic inflammation and, synovial-derived macrophages and, 441
- Superoxide dismutase, immature myocardial preservation by, following global ischemia, 439
- Surfactant apoprotein, in bronchial gland cell type adenocarcinoma of lung, 20
- Surgical pathology, dBASE III microcomputer system for reporting and encoding, 91
- Surgical stage, thymoma histologic subtyping and, prognostic implication of, 183

Survival

- long-term, nuclear DNA content as prognostic factor for, in breast cancer, 471
- pancreatic neuroendocrine tumors and, DNA ploidy in, 784
- Synovial membrane, fibroblasts in, in rheumatoid arthritis, carboxyterminal domain of procollagen type I expressed in, 340
- Sysmex R-1000, evaluation of, 70

T

- T antigen, localization in ovarian tumors, immunohistochemical and ultrastructural, 315
- T-cell(s)
 - detection of, diagnostic utility of commercially obtained 4KB5 and UCHL-1 and, 58
 - gene rearrangement analysis and, in hemopathology, S38
 - plasmacytoid, in reactive lymph node, 569
- T-cell receptor, β -F1, antibodies to, phenotyping of T-cell proliferations and, in formalin-fixed paraffin-embedded tissues, 382
- T-cell receptor genes, fine-needle aspiration of non-Hodgkin's lymphoma and, 754
- T-cell subsets, activated, in B-cell non-Hodgkin's lymphoma, 449
- δ TCS1, T-cell receptor expression in T-cell malignancies and, 495
- TD α fetal lung maturity assay, reliability of, in maternal diabetes, 446
- Technicon H-1
 - detection of band neutrophils using, 446
 - evaluation of oncology patients and, 447
 - white blood cell differentials in AIDS patients and, granulocyte-macrophage colony-stimulating factor and, 447
- Testes
 - detection of human immunodeficiency virus-related protein in, in AIDS patients, 196
 - germ cell cancer of, expression of HLA class I antigens in, 202
- Test evaluation, imperfect standards and, 252
- Thalassemia, hemoglobin E- β ^o, von Willebrand factor abnormality in, 391
- Thrombi, arteriolar, production on intact endothelium, by neutralization of surface antithrombin activity, 448
- Thrombin-antithrombin complexes, as indicator of deep venous thrombosis, in postoperative patients, 448
- Thrombocytopenia
 - after desmopressin, absence of *in vitro* hypersensitivity to ristocetin and, 522
 - effect of bacteremia on automated platelet measurements and, in neonates, 391
 - immune, detecting platelet-associated immunoglobulin G in, solid phase red cell adherence test for, 552
- Thymoma
 - H antigen, peanut agglutinin receptor, and *Saphora japonica* expression in, immunohistochemistry and, 44
 - histologic subtyping of, prognostic implication of, 183
- Thymus, infant, H antigen, peanut agglutinin receptor, and *Saphora japonica* expression in, immunohistochemistry and, 44
- Thyrotropin
 - in nonthyroidal illness, radiation partition fluorescent immunoassay and, 84
 - radial partition fluorescent immunoassay of, 84
- Tissue antigens, expression of leukocyte adhesion molecules in human endometrium and, 183
- T-lineage, in chronic lymphocytic leukemia, kappa immunoglobulin light chain gene rearrangement and, 702
- Transferrin, serum tests for iron deficiency and, in hospitalized patients, 240
- Transfusion, variations in fibrinogen and von Willebrand factor content of cryoprecipitate and, 694
- Transitional cell carcinoma
 - with multinucleated stromal giant cells, 441
 - ovarian carcinoma with pattern of, 457
 - of ureter and renal pelvis, cytology in diagnosis of, 443

Transposition of the great arteries, congenital anomalies of coronary arteries and veins in, 438

Trophoblastic tumors, immunoradiometric assays for human chorionic gonadotropin and, intact versus beta-specific, 347

Tumor(s)

- benign mixed, of breast, 792
- immunohistochemical, flow cytometric, and ultrastructural study of, 795
- of eyelid, fine-needle cytology of, 100
- giant cell, osteoclast-like, ultrastructural and immunohistochemical study of, 111
- nerve sheath, clinicopathologic, immunohistochemical, and ultrastructural features of, 424
- neuroectodermal, peripheral, malignant, human immunodeficiency virus infection and, 818
- orbital, fine-needle cytology of, 100
- ovarian, localization of T antigen in, immunohistochemical and ultrastructural, 315
- pancreatic, immunocytochemical staining for human chorionic gonadotropin subunits and, prediction of malignancy and, 273
- trophoblastic, immunoradiometric assays for human chorionic gonadotropin and, intact versus beta-specific, 347
- Tumor-associated glycoprotein, prostatic adenocarcinoma and, 466
- Tumor cellularity, in breast carcinoma, 98

U

- UCHL-1, diagnostic utility of, in detection of B- and T-cells, in embedded tissue sections, 58
- Ulcerative colitis, monoclonal antihuman small bowel and colon specific mucin antibodies and, characterization of, 621
- Ulex, H antigen, peanut agglutinin receptor, and *Saphora japonica* receptor expression and, in infant thymuses and thymic neoplasias, 44
- Ultrastructure
 - aggressive jejunal lymphoma and, of large granular lymphocytes, immunohistochemical, ultrastructural, molecular, and DNA content analysis of, 124
 - ki-1-positive non-Hodgkin's lymphomas and, 327
 - localization of T antigen in ovarian tumors and, 315
 - malignant peripheral neuroectodermal tumor and, human immunodeficiency virus infection and, 818
 - melanotic schwannoma of bone and, 424
 - pleiomorphic adenoma and, 795
- Ureter, transitional cell carcinoma of, cytology in diagnosis of, 443
- Urinary enzymes, assaying for, solid-phase chemistry system for, 445
- Urinary protein, Behring nephelometer for detection of, 405
- Urine
 - free heavy chain of immunoglobulin G in, confusion with gamma heavy chain disease, 437
 - microscopic examination of, positive, predicting, 302
 - optimum collection of, for detection of Bence Jones protein, 689
- Uterus, round ligament of, benign mesenchymoma of, immunohistochemistry and, 421

V

- Vagina, fibroepithelial polyp of, antigen profile of, 604
- Vasculitis, Rocky Mountain spotted fever and, *Rickettsia rickettsii* in fixed cutaneous specimens and, rapid immunoperoxidase demonstration of, 410
- Viridans streptococci, isolated from blood and cerebrospinal fluid, in pediatric population, clinical relevance of, 270

- von Willebrand factor
 abnormality of, in hemoglobin E- β^0 thalassemia, 391
 cryoprecipitate content of, variability in, 694
 platelet, measurement of, platelet isolation method and, 400
 von Willebrand's disease, type II Buffalo variant of, 522

W

- Water content, effect on gas chromatographic headspace analysis of ethanol in plasma, 357
 White blood cell differentials
 automated differentials and, S11
 manual and Technicon H-1, in AIDS patients, granulocyte-macrophage colony-stimulating factor and, 447
 White people, screening for alanine aminotransferase and hepatitis B core antibody, 533
 Whitlow, herpetic, in human immunodeficiency virus infection, 828
 Whole blood lysis, rapid analysis of lymphocyte subsets in cord blood and, 263
 Wilms' tumor
 argyrophilic nucleolar organizer region in, correlation with histology, 435
 extrarenal, with cerebellar metastasis, spina bifida and, 805
 WT31, T-cell receptor expression in T-cell malignancies and, 495

X

- X-ray energy spectroscopy, giant cell myocarditis associated with silicone and, 148

Y

- Y chromosome, *in situ* hybridization and, S44

Abstracts of Papers and Poster Presentations, Scientific Sessions of the Spring Meeting of the American Society of Clinical Pathologists and the College of American Pathologists, March 24-29, 1990, San Francisco, California, 435

Award Articles and Special Reports, 706

Book Reviews

- Ackerman's Surgical Pathology*, 158
Clinical Chemistry Self Assessment, 839
Color Atlas of Oral Diseases, 720
Current Topics in Pathology. Ovarian Pathology, 158
D-Tree: Decision Analysis for the IBM®, 718
Effects of Disease on Clinical Laboratory Tests, 717
Fine Needle Aspiration Cytology: Lymph Node, Thyroid, and Salivary Gland, 838
Gastrointestinal and Oesophageal Pathology, 838
Gestational Trophoblastic Disease, 159
An Introduction to Clinical Immunology, 718
Modern Blood Banking and Transfusion Practices, 719
Ocular Pathology. A Text and Atlas, 159
Pathology: A Study Guide, 717
Pathology of the Urinary Bladder, 839
Pediatric Autopsy Pathology, 839
Practical Gynecologic Oncology, 159
Prostate Biopsy Interpretation, 719
News and Notices, 166, 303, 434, 593, 723, 840

INDEX OF AUTHORS

- Abbate, R., 162, 163
 Abbondanzo, Susan L., 698
 Abe, Tsukasa, 495
 Ablashi, Dharam V., 776
 Aihara, Kaoru, 315
 Alanen, Kalle A., 784
 Alavaikko, Martti, 784
 Albers, G. H. Robert, 14
 Allcock, Rosemary, 555
 Allen, Cammie, 541
 Almagro, Urias A., 117
 Ambros, Robert A., 98
 Amin, Bipin R., 132
 Andersen, Willie A., 722
 Andoh, Kiyoshi, 679
 Antti-Poika, Ilkka, 340
 Araki, Tsutomu, 315
 Armenakas, Noel A., 196
 Armin, Ali-Reza, 575
 Ashfaq-Drewett, Raheela, 541
 Askin, Frederic B., 294
 Assunção, Mario do Carmo G. A., 298
 Ault, Mark, 403
 Avakian, James, 298
 Ayala, Alberto G., 795
 Azad, Abdu F., 410
 Azli, N., 592
 Azzarelli, Biagio, 805
 Baenzinger, John C., 263
 Ballance, William A., 795
 Bane, Barbara L., 839
 Banks, Peter M., 153, 233, 333
 Barnes, Asa, 719
 Baroni, Carlo D., 190
 Barrett, Donna, 502
 Barthold, Joan C., 277
 Bauer, Thomas W., 111, 322
 Bayliss, Katherine M., 117
 Beck, J. Robert, 296
 Beeler, Myrton F., 712, 831, 833
 Behrens, Arlene N., 522
 Beissner, Robert S., 560
 Ben-Ezra, Jonathan, 822
 Benford, Kerry, 771
 Benson, Peter J., 395
 Berberian, Linda B., 403
 Berger, Uta, 609
 Bernreuter, Wanda, 424
 Bernstein, Zale P., 548
 Berry, Gerald J., 675
 Beutler, Ernest, 788
 Biddinger, Paul W., 510
 Bielat, Kenneth L., 548
 Billingham, Margaret E., 675
 Blok, Paul, 49
 Bock, Jay L., 352, 432
 Boddi, M., 162, 163
 Body, Barbara A., 415
 Boldt, Donna M., 104
 Bolinger, Carol D., 263
 Borek, Deborah A., 26
 Bovill, Edwin G., 400
 Brandt, John T., 526
 Brecher, Maria, 333
 Bridge, Julia A., 26
 Brigden, Malcolm L., 689
 Brooks, John S. J., 741
 Brubaker, Ronald, 569
 Bruner, Janet M., 1
 Brunt, Elizabeth M., 280
 Burke, M. Desmond, 706
 Burns, Bruce F., 327
 Burns, Edward R., 240
 Buss, David H., 259
 Butler, James J., 227
 Byard, Roger W., 579
 Cagle, Philip, 305
 Cannon, Harold J., 270
 Cantrell, Mary, 621
 Cardenas, F. M., 721
 Carey, John L., 527
 Carey, Martyn P., 555
 Carr, Ronald, 720
 Catrou, Paul G., 712
 Cerezo, Lizardo, 298
 Chanderkar, N. G., 163
 Chandler, Francis W., 575
 Chandor, Stebbins B., 719
 Chen, Karl T. K., 792
 Chery, Marsha, 415
 Chew, Ruth H., 582
 Chitre, A. P., 162
 Clark, Douglas, 124
 Clark, Jimmy R., 58
 Cloherty, M. Gerard, 302
 Clowry, Lawrence J., 637
 Cole, Patricia, 148
 Compton, Carolyn C., 273
 Conlon, Michele, 657
 Coombes, R. Charles, 609
 Copenhaver, Cedith M., 544
 Cordle, Delores G., 267
 Cottle, Harold R., 841
 Cramer, Steward F., 593
 Craver, Randall D., 839
 Crocker, John, 555
 Cronin, William J., 196, 208
 Crum, Christopher P., 722
 Cruz, Victoria E., 502
 Da Silva, Moacyr, 196
 Daehnert, Kristine, 637
 Daher, Nahib, 14
 Dardick, Irving, 327
 Davey, Frederick R., 517, 502
 Dehner, Louis P., 713, 731
 Dick, Fred R., 702
 Dincsoy, Hosoon P., 651
 Dodd, Leslie G., 141
 Domingo, Javier, 802
 Dressler, Lynn, 124
 Driessen, Annette, 70
 Driks, Michael, 367
 Drouin, Regen, 818
 Dudre, Ellen F., 91
 Dumler, J. Stephen, 363, 410
 Dunham, William, 424
 Dye, Kevin R., 144
 Edinger, Carol Ann, 302
 Edinger, Mark G., 322, 615
 Eisenstein, David J., 510
 Ekfors, Tauno, 32
 Elghetany, M. Tarek, 517
 Elias, Jules M., 301
 Elliott, James N., 39
 El-Naggar, Adel K., 480, 795
 Engle, William A., 263
 Ennis, Patricia S., 754
 Escribano, M. Juan, 14
 Fazio, Victor, 615
 Fellbaum, Christian, 219
 Ferry, Judith A., 657
 Fiederlein, Roger L., 662
 Fisher, Kathy, 831
 Fitzpatrick, John E., 548
 Flavell, D. J., 299
 Fong, Tse-Ling, 161
 Font, Ramon L., 305
 Ford, Peter M., 771
 Ford, Sally, 771
 Fracchia, John A., 196
 Franquemont, Douglas W., 722
 Freeman, Robert G., 44
 Frierson, Henry F., Jr., 144, 754
 Fu, Kin H., 749
 Gage, Wesley R., 363, 410
 Gajl-Peczalska, Kazimiera J., 280
 Galles, Mary E., 702
 Garipey, Gilles, 818
 Garnsy, Lisa, 480
 Gatter, K. C., 299
 Gauvin, Gregory P., 557
 Geisinger, Kim R., 259
 Gensini, G. F., 162, 163
 Gephardt, Gordon N., 322
 Gersell, Deborah J., 586
 Gershenson, David M., 457
 Gershwin, M. E., 621
 Ghazizadeh, Mohammad, 315
 Glasser, Lewis, 662
 Goeken, James A., 702
 Goellner, John R., 838
 Goldberg, S. Nahum, 240
 Golden, Elizabeth A., 400
 Gould, Lynn M., 552
 Goya, Tomoyuki, 20
 Graeme-Cook, Fiona, 273
 Gratwohl, Alois, 70
 Green, Ralph, 302
 Griffith, Rogers C., 280
 Grignon, David J., 795
 Grönblad, Mats, 340
 Groom, Debra A., 809
 Groothuis, Carol L., 670
 Grose, Mary P., 538
 Gross, Lorraine F., 246
 Gupta, Mala R., 367
 Gupta, Prabodh K., 363
 Haimoto, Hajime, 631
 Hämmäläinen, Martti, 340
 Hamill, Barbara, 277
 Hamoudi, Ayser Chalabi, 270
 Hansmann, Martin-L., 219
 Hanson, Curtis A., 51, 549, 117, 563
 Hanto, Douglas W., 280
 Hara, Nobuyuki, 176
 Harrington, Douglas S., 538
 Harris, Nancy L., 657
 Harrison, Robert L., 541
 Hartmann, Carl-Alexander, 604
 Hasegawa, Duane K., 395
 Hause, Lawrence L., 637
 Hawkins, Hal, 305
 Haye, Christian, 100
 Head, David R., 298
 Heggeness, Lucille M., 593
 Helin, Heikki J., 378
 Helle, Markku J., 378
 Henderson, Dennis, 415
 Higashiyama, Masahiko, 8
 Higgins, Sharon Anne, 405
 Hilborne, Lee H., 405, 842
 Hill, Rolla B., 706
 Hirata, Hitoshi, 20
 Hoag, Gordon N., 689
 Hoernig, Lynne A., 522
 Hoffman, George C., 302
 Hoffman, Maureane, 694
 Holbrook, Elizabeth A., 549
 Holmquist, Nelson D., 721, 722
 Hood, Daniel L., 111, 615
 Hori, Sadaaki, 643
 Horsman, Douglas E., 749
 Horwitz, Charles A., 776
 Houck, Jeffrey A., 538
 Howanitz, Joan H., 839
 Hribar, Marilyn M., 270
 Hui, Pak K., 219
 Huntrakoon, Manop, 26
 Hytiroglou, Prodromos, 802
 Iaci-Hall, Janice, 286
 Ioachim, Harry L., 196, 208
 Ishida, Teruyoshi, 176
 Isola, Jorma J., 378
 Jaffe, Elaine S., 698
 Janney, Christine M., 280

- Jenner, Paul, 694
 Jerman, Joze, 813
 Jiwa, Mehdi, 491
 Joensuu, Heikki, 471, 784
 Johnson, Ann M., 373
 Jones, Carol D., 552
- Kalousek, Dagmar K., 749
 Kammeyer, Patricia L., 575
 Kaneko, Satoshi, 176
 Kao, Grace A., 765
 Kao, Yuan S., 765
 Kato, Kanefusa, 631
 Katzmann, Jerry A., 387
 Kawasaki, Yasuhito, 8
 Keeley, Frederick W., 579
 Kemp, John D., 702
 Kessler, Gerald, 84
 Khaghani, Asghar, 609
 Kidd, Pamela, 286
 Kilbourn, J. P., 302
 Kimlinger, Teresa K., 387
 Kimmel, Marek, 599
 Kisiel, Walter, 516
 Kjeldsberg, Carl, 298
 Klein, Baruch, 202
 Klein, Tirza, 202
 Klemi, Pekka J., 471, 784
 Kljanienko, J., 592
 Kluin, Philip M., 491
 Kobayashi, Norio, 679
 Koerner, Theodore A., 267
 Koethe, Susan M., 637
 Kojima, Mizu, 495
 Komaroff, Anthony L., 836
 Konichezky, Miriam, 202
 Kontinen, Yrjö T., 340
 Koo, Chae H., 822
 Kooperman, Oded, 202
 Koshikawa, Takashi, 631
 Kossovsky, Nir, 148
 Kotylo, Patricia K., 263
 Krause, John R., S11, S27
 Kudryk, Bohdan J., 516
 Kueck, Brian D., 117
 Kuhadja, Francis P., 363, 410
 Kuhl, Wanda C., 788
 Kumar, Dinesh, 161
 Kunkel, Steven L., S49
 Kurec, Anthony S., S17, 502
 Kurtin, Paul J., 367
 Kute, Timothy E., 259
- Labuzetta, James W., 548
 Lai, Fernand Mac-Moune, 79
 Lai, Kar Neng, 79
 Lamovec, Janez, 813
 Lang, Daniel T., 403
 Lawrence, Christine, 240
 Lazarchick, John, 391
 LeBeau, Michelle M., 132
 Lee, Stephen, 403, 552
 Leibel, Steve A., 111
 Lemieux, Nicole, 818
 Leung, Nancy W. Y., 79
 Levin, Howard S., 322
- Levine, Israel, 202
 Lewis, Steven H., 421
 Li, Chin-Yang, 387
 Lillicrap, David P., 771
 Lim, Mona M., 84
 Lin, Peter C., 405
 Lippi, Giuseppe, 760
 Lippi, Ugo, 760
 Listrom, Margaret B., 124
 Livini, Ella, 202
 LiVolsi, Virginia A., 741
 Lo, Stephen T., 79
 London, Stephen, 347
 Longacre, Teri A., 124
 Lundberg, George D., 595, 706
 Lurie, Aubrey A., 246
 Lurie, Hedwig, 202
 Lutz, Charles T., 702
- Machado, Jesus Carlos, 298
 Mackawa, Tadashi, 679
 Manivel, J. Carlos, 167
 Marcon, Mario J., 270
 Marin, Sinikka, 784
 Marsh, Stuart G., 137
 Marshall, Barry J., 144
 Marshall, Bruce A., 526
 Martin, Alvin W., 233
 Mason, D. Y., 299
 Mason, David Y., 502, 822
 Mathys, Sylvia, 70
 Matsuura, Nariaki, 8
 Matthaeus, William G., 117
 Maya, Menachem, 208
 Mazur, Michael T., 466
 McCallum, Richard W., 144
 McCoy, J. Philip, Jr., S27
 McDonald, Olivia L., 357
 McFadden, Patrick W., 637
 McKenna, Robert W., S9
 McKinsey, David S., 367
 McLaughlin, Peter, 227
 McLemore, Donia, 480
 McMahan, James T., 111
 McNeely, Michael D. D., 689
 Meijer, Chris J. L. M., 49
 Memoli, Vincent A., 516
 Menitove, Jay E., 589
 Micheau, C., 592
 Miettinen, Markku, 32
 Mihalov, Michael L., 575
 Miller, Richard, 822
 Miller, Rodney T., 670
 Mills, Stacey E., 834
 Mirkin, L. David, 805
 Mitsudomi, Tetsuya, 176
 Modena, Nereo, 760
 Monden, Takushi, 8
 Mori, Naoyoshi, 495
 Mori, Takesada, 8
 Moubayed, Pierre, 219
 Movahed, Lucile A., 675
 Murata, Atsuo, 8
 Murotani, Masahiro, 8
 Myers, Jeffrey L., 424
- Nakhleh, Raouf E., 731
 Nap, Marius, 14
 Narahara, Nobuhiro, 679
 Nardi, George, 273
 Neal, Evelyn D., 689
 Neff, James R., 26
 Neff, John C., 538
 Neiman, Richard S., 233
 Nelson, Scott D., 141
 Nevalainen, Timo J., 784
 Ngan, Bo-Yee, 299
 Nicoli, Marco, 760
 Nissen, Catherine, 70
 Noguchi, Masayuki, 20
 Noorduyn, L. Arnold, 49
 Nosal, James M., 44
 Novak, Edward, 522
 Nuovo, Gerard J., 421
 Nuovo, Margaret A., 421
 Nuzzo, Joyce, 706
 Nyska, Abraham, 202
- Odell, Michael, 286
 Oertel, Yolanda C., 39
 Ogawa, Michio, 8
 Oguro, Tatsuo, 315
 Ohta, Mitsuo, 176
 Oka, Kuniyuki, 495
 Oka, Takeshi, 176
 Oles, Karl J., 387
 Onoda, Noboru, 643
 Ordóñez, Nelson G., 430
 Ornellas, Eugene P., 132
 Osborne, Barbara M., 227
 Ostheimer, John T., Jr., 557
 Otto, Ralph N., 104
 Owen, Charles A., Jr., S3
 Oye, Robert K., 842
- Pambianco, Daniel J., 144
 Pappas, Alex A., 347
 Pardue, Marianna G., 347
 Parekh, Kartik, 382
 Patrick, Celeste H., 391
 Pescarmona, Edoardo, 190
 Peterson, Loann C., 395
 Petras, Robert E., 615
 Pettis, George L., 363, 410
 Pfefferkorn, Elisabeth, 70
 Picker, Louis, 299
 Pietra, Giuseppe G., 741
 Pihan, German A., 545
 Pinkus, Geraldine S., 300, 382
 Pinto, Michael, 771
 Podgurski, Annesandra E., 104
 Polesky, Herbert F., 155
 Pomerance, Ariela, 609
 Ponzio-Prion, A., 592
 Poubouridis, Demetrio, 183
 Presti, Blair C., 137
 Prichard, Robert W., 259
 Prindville, Thomas P., 621
 Prisco, D., 162, 163
 Pulakhandam, Usha, 651
- Raap, Anton K., 491
 Randall, Milton B., 259
 Randhawa, Parmjeet, 167
 Rangdaeng, Samreung, 305
 Rangwala, Anis F., 486
 Rao, Madhusudan G., 486
 Rappaport, Edward, 560
 Rappaport, Henry, 822
 Ratliff, Norman B., 714
 Ratner, Lee, 280
 Ree, H. J., 233
 Regenass, Alfred, 70
 Remick, Daniel G., S49
 Rendina, Erino A., 190
 Restrepo, Carlos, 838
 Rhodes, Judith C., 510
 Ricci, Costante, 190
 Richer, Claude-Lise, 818
 Rivers, Florence M., 572
 Ro, Jae Y., 305, 480, 795
 Robey-Cafferty, Susan S., 1, 457
 Rocamora, Antonio, 731
 Rodgers, Denis O., 405
 Rogers, William J., 246
 Rohr, L. Ralph, 572
 Romsdahl, Marvin G., 795
 Rosen, Paul Peter, 599
 Ross, Charles W., 563
 Rousseau, Sandra M., 516
 Roy, Manimala, 208
 Ruco, Luigi P., 190
 Ruebner, Boris H., 621
 Rutledge, Michael L., 1
- Sacks, David B., 84
 Sadakata, Hiroto, 679
 Saha, Bratin K., 280
 Said, Jonathan W., 300, 382
 Salahuddin, S. Zaki, 776
 Salaskar, V. H., 162
 Saltzman, Robin, 776
 Santavirta, Seppo, 340
 Sasaki, Yoshihiro, 315
 Sato, Noriko, 698
 Saxena, Sunita, 533
 Saxinger, Carl, 776
 Schinella, Michele, 760
 Schlienger, Pierre, 100
 Schnitzer, Bertram, 563
 Schumacher, Peter, 70
 Schwartz, Burton, 776
 Schwartz, Ira S., 161, 725, 828
 Sciotto, Cosimo G., 137
 Sedmak, Daniel D., 538
 Seo, In Sook, 805
 Sharp, Gregory H., 277
 Sheibani, Khalil, 822
 Shetty, Rajesh, 163
 Shevchuk, Maria M., 196
 Shimano, Takashi, 8
 Shimosato, Yukio, 20
 Shintaku, I. Peter, 382
 Shojania, A. Majid, 684
 Shortleeve, Michael J., 557
 Shulman, Ira A., 533
 Shultz, Jana J., 466

- Shurbaji, Muhammad S., 363
 Silberberg, Boris K., 582
 Silva, Elvio G., 457
 Skubitz, Keith M., 156
 Smith, Charles R., 579
 Smith, Clark M., II, 395
 Smith, Daniel, 421
 Smith, Susie, 233
 Smith, Terry L., 457
 Sobel, Harold J., 813
 Solberg, Lawrence A., Jr., 387
 Solymoss, Susan, 400
 Speck, Bruno, 70
 Speicher, Carl E., 717
 Speights, V. O., Jr., 560
 Sperling, Matthias, 604
 Spicer, Anna, 415
 Spigel, James H., 124
 Springer, Georg F., 315
 Starke, William R., 809
 Stay, E. J., 721
 Stebler, Christine, 70
 Steenbergen, Renske D. M., 491
 Steeper, Theresa A., 776
 Stein, P'rrald, 604
 Stempsey, William E., 165
 Stoler, Mark H., 714
 Stoolman, Lloyd M., 563
 Strauchen, James A., 725
 Straus, Stephen E., 698
 Strauss, Ronald G., 267
 Strickler, John G., 544
 Stross, W. P., 299
- Stump, David C., 516
 Sugimachi, Keizo, 176
 Suit, Paula F., 322
 Swank, Richard T., 522
 Swanson, Paul E., 300, 731
 Sweeney, Joseph D., 522, 548
 Swerdlow, Steven H., 58, 569
- Tabbarah, Sana, 754
 Tabibzadeh, Siamak S., 183
 Takashi, Munechisa, 631
 Tam, John S., 79
 Tanaka, Hiroshi, 679
 Tannenbaum, Myron, 196
 Tateishi, Masahiro, 176
 Tatsumi, Noriyuki, 109
 Taylor, E. Howard, 347
 Taylor, Sheryle A., 749
 Tefferi, Ayalew, 387
 Thamilarasam, Maran, 563
 Theil, Karl S., 526
 Thiele, Geoffrey M., 373
 Thomas, William, Jr., 132
 Tichelli, Andre, 70
 Tindle, Barbara H., 277
 Toikkanen, Sakari, 471
 Tomita, Naohiro, 8
 Townsend, Wanda, 831
 Trost, Ronald C., 98
 Truong, Luan D., 305
 Tsang, Angela O. W., 749
 Tsuda, Izumi, 109
- Tsutsumi, Yutaka, 643
 Tubbs, Raymond R., 322, 615
- Uchiyama, Toshimasa, 679
 Uei, Yoshio, 20
 Uthman, Margaret O., 227
- Vahvanen, Veijo, 340
 Valdes, Roland, Jr., 84
 Valenstein, Paul N., 252, 718
 van der Ploeg, Mels, 491
 van der Valk, Paul, 49
 van Heerde, Peter, 49
 Vance, Richard P., 164
 Vassallo, José, 298
 Velaskar, D. S., 162
 Venkataraman, M., 132
 Venuta, Federico, 190
 Vielh, Philippe, 100
 Von Essen, Robert, 340
 Vroom, Thea M., 49
- Walls, Robert C., 347
 Walters, Carolyn Sue, 765
 Ward, Brian E., 722
 Warner, Nancy E., 161
 Warnke, Roger A., 299
 Warren, Nancy G., 415
 Warzynski, Michael J., 104
 Watts, John C., 575
 Watts, Mark T., 91, 357
 Weaver, Donald L., 277
- Weiss, Lawrence M., 675
 Welsh, Ronald A., 720
 Wenz, Barry, 240
 Wernli, Martin, 70
 Westbrook, Carol A., 132
 Westerman, Maxwell P., 132
 Whitten, Richard O., 286
 Wick, Mark R., 167, 300, 717, 731
 Wiley, Elizabeth L., 44
 Willemze, Rein, 49
 Williams, Michael E., 58, 754
 Willman, Cheryl L., 124
 Woda, Bruce A., 545
 Wojtukiewicz, Marek Z., 516
 Wolf, Barbara C., 233
 Woods, Gail L., 373
- Yacoub, Magdi H., 609
 Yoda, Yasuhiro, 495
 Yoder, Mervin C., 263
 Yousem, Samuel A., 167
- Zacharski, Leo R., 516
 Zackson, David A., 148
 Zajdela, Antoine, 100
 Zamir, Rina, 202
 Zanke, Brent, 684
 Zidar, Andreja, 813
 Zimran, Ari, 788
 Zukerberg, Lawrence R., 657
 Zuretti, Alejandro R., 828

TABLE OF CONTENTS

JANUARY TO JUNE, 1990

Number 1, January 1990

Expression of a Multidrug Resistance Gene in Esophageal Adenocarcinoma: Correlation with Response to Chemotherapy and Comparison with Gastric Adenocarcinoma. SUSAN S. ROBEY-CAFFERTY, MICHAEL L. RUTLEDGE, AND JANET M. BRUNER	1
Immunohistochemical Study on Pancreatic Secretory Trypsin Inhibitor (PSTI) in Gastric Carcinomas. MASAHIKO HIGASHIYAMA, TAKUSHI MONDEN, MICHIO OGAWA, NARIAKI MATSUURA, MASAHIRO MUROTANI, YASUHIRO KAWASAKI, NAOHIRO TOMITA, ATSUO MURATA, TAKASHI SHIMANO, AND TAKESADA MORI	8
An Immunohistologic Study of the Feto-Acinar Pancreatic Protein (FAP) in the Normal Pancreas, Chronic Pancreatitis, Pancreatic Adenocarcinoma, and Intraabdominal Metastases of Adenocarcinomas. G. H. ROBERT ALBERS, M. JUAN ESCRIBANO, NAHIB DAHER, AND MARIUS NAP	14
Clinicopathologic and Immunohistochemical Characteristics of Bronchial Gland Cell Type Adenocarcinoma of the Lung. HITOSHI HIRATA, MASAYUKI NOGUCHI, YUKIO SHIMOSATO, YOSHIO UEI, AND TOMOYUKI GOYA	20
Chromosomal Abnormalities in Clear Cell Sarcoma: Implications for Histogenesis. JULIA A. BRIDGE, DEBORAH A. BOREK, JAMES R. NEFF, AND MANOP HUNTRAKOON	26
Alveolar Soft Part Sarcoma: Immunohistochemical Evidence for Muscle Cell Differentiation. MARKKU MIETTINEN AND TAUNO EKFORS	32
Lymphoepithelial Cysts of the Salivary Glands: Histologic and Cytologic Features. JAMES N. ELIJOTT AND YOLANDA C. OERTEL	39
Immunohistochemical Demonstration of H Antigen, Peanut Agglutinin Receptor, and <i>Saphora japonica</i> Receptor Expression in Infant Thymuses and Thymic Neoplasias. ELIZABETH L. WILEY, JAMES M. NOSAL, AND ROBERT G. FREEMAN	44
Stage Is a Better Prognostic Indicator than Morphologic Subtype in Primary Noncutaneous T-Cell Lymphoma. L. ARNOLD NOORDUYN, PAUL VAN DER VALK, PETER VAN HEERDE, THEA M. VROOM, PAUL BLOK, REIN WILLEMZE, AND CHRIS J. L. M. MEIJER	49
Detection of B- and T-Cells in Paraffin-Embedded Tissue Sections: Diagnostic Utility of Commercially Obtained 4KB5 and UCHL-1. JIMMY R. CLARK, MICHAEL E. WILLIAMS AND STEVEN H. SWERDLOW	58
Evaluation of the Sysmex R-1000*: An Automated Reticulocyte Analyzer. ANDRE TICHELLI, ALOIS GRATWOHL, ANNETTE DRIESSEN, SYLVIA MATHYS, ELISABETH PFEFFERKORN, ALFRED REGENASS, PETER SCHUMACHER, CHRISTINE STEBLER, MARTIN WERNLI, CATHERINE NISSEN, AND BRUNO SPECK	70
Hepatitis with Isolated Serum Antibody to Hepatitis B Core Antigen: A Variant of Non-A, Non-B Hepatitis? KAR NENG LAI, FERNAND MAC-MOUNE LAI, NANCY W. Y. LEUNG, STEPHEN T. LO, AND JOHN S. TAM	79
Radial Partition Fluorescent Immunoassay of Thyrotropin: Analytic Evaluation and Clinical Correlation. DAVID B. SACKS, MONA M. LIM, ROLAND VALDES, JR., AND GERALD KESSLER	84
A dBASE III™ Surgical Pathology Reporting and Encoding Microcomputer System. ELLEN F. DUDREY AND MARK T. WATTS	91
Brief Scientific Reports	
Cellularity in Breast Carcinoma. ROBERT A. AMBROS AND RONALD C. TROST	98
Fine-Needle Cytology of 292 Palpable Orbital and Eyelid Tumors. ANTOINE ZAJDELA, PHILIPPE VIELH, PIERRE SCHLIENGER, AND CHRISTIAN HAYE	100
An Automated Method to Prepare Cell Suspensions from Human Biopsy Samples for Immunophenotyping by Flow Cytometry. MICHAEL J. WARZYNSKI, ANNESANDRA E. PODGURSKI, DONNA M. BOLDT, AND RALPH N. OTTO	104
Reticulocytes in Human Preserved Blood as Control Material for Automated Reticulocyte Counters. IZUMI TSUDA AND NORIYUKI TATSUMI	109
Single Case Reports	
Hepatic Giant Cell Carcinoma: An Ultrastructural and Immunohistochemical Study. DANIEL L. HOOD, THOMAS W. BAUER, STEVE A. LEIBEL, AND JAMES T. MCMAHON	111
Richter's Syndrome Presenting as Primary Central Nervous System Lymphoma: Transformation of an Identical Clone. KATHERINE M. BAYLISS, BRIAN D. KUECK, CURTIS A. HANSON, WILLIAM G. MATTHAEUS, AND URIAS A. ALMAGRO	117
Aggressive Jejunal Lymphoma of Large Granular Lymphocytes: Immunohistochemical, Ultrastructural, Molecular, and DNA Content Analysis. TERI A. LONGACRE, MARGARET B. LISTROM, JAMES H. SPIGEL, CHERYL L. WILLMAN, LYNN DRESSLER, AND DOUGLAS CLARK	124
Coexistent Double Gammopathy, Myeloproliferative Disorder, and Malignant Lymphoma. EUGENE P. ORNELLAS, MICHELLE M. LEBEAU, M. VENKATARAMAN, WILLIAM THOMAS, JR., BIPIN R. AMIN, CAROL A. WESTBROOK, AND MAXWELL P. WESTERMAN	132
Lymphocytic Lymphoma with Associated Gamma Heavy Chain and IgM-Lambda Paraproteins: An Unusual Biclinal Gammopathy. BLAIR C. PRESTI, COSIMO G. SCIOTTO, AND STUART G. MARSH	137

TABLE OF CONTENTS

Disseminated Coccidioidomycosis Detected by Percutaneous Liver Biopsy in a Liver Transplant Recipient. LESLIE G. DODD AND SCOTT D. NELSON	141
<i>Campylobacter pylori</i> Colonizing Heterotopic Gastric Tissue in the Rectum. KEVIN R. DYE, BARRY J. MARSHALL, HENRY F. FRIERSON, JR., DANIEL J. PAMBIANCO, AND RICHARD W. MCCALLUM	144
Giant Cell Myocarditis Associated with Silicone: An Unusual Case of Biomaterials Pathology Discovered at Autopsy Using X-Ray Energy Spectroscopic Techniques. NIR KOSSOVSKY, PATRICIA COLE, AND DAVID A. ZACKSON	148
Editorials	
When Morphology Is Not Enough. PETER M. BANKS	153
Would Another Test (anti-HCV) Have Helped? HERBERT F. POLESKY	155
P-glycoprotein and Multidrug Resistance. KEITH M. SKUBITZ	156
Book Reviews	158
Books Received	160
Correspondence and Corrections	
Dog Bites Slides. IRA S. SCHWARTZ	161
Nesidioblastosis of the Pancreas. DINESH KUMAR, NANCY E. WARNER, AND TSE-LING FONG	161
Pseudo-Diagnosis of Hyperaggregation: A Public Health Hazard! D. S. VELASKAR AND A. P. CHITRE	162
The Authors' Reply. R. ABBATE, M. BODDI, D. PRISCO, AND G. F. GENSINI	162
Faulty Study Design. V. H. SALASKAR	162
The Authors' Reply. R. ABBATE, M. BODDI, D. PRISCO, AND G. F. GENSINI	163
Oversight? RAJESH SHETYE, AND N. G. CHANDERKAR	163
The Authors' Reply. R. ABBATE, M. BODDI, D. PRISCO, AND G. F. GENSINI	163
Difficulties of Describing an Ethic in a Polyglot Nation. RICHARD P. VANCE	164
The Author's Reply. WILLIAM E. STEMPSEY	165
News and Notices	166

Number 2, February 1990

Pulmonary Blastoma: An Immunohistochemical Analysis with Comparison with Fetal Lung in Its Pseudoglandular Stage. SAMUEL A. YOUSEM, MARK R. WICK, PARMJEET RANDHAWA, AND J. CARLOS MANIVEL	167
Large Cell Carcinoma of the Lung: Prognostic Implications of Histopathologic and Immunohistochemical Subtyping. TERUYOSHI ISHIDA, SATOSHI KANEKO, MASAHIRO TATEISHI, TAKESHI OKA, TETSUYA MITSUDOMI, KEIZO SUGIMACHI, NOBUYUKI HARA, AND MITSUO OHTA	176
Expression of Leukocyte Adhesion Molecules in Human Endometrium. SIAMAK S. TABIBZADEH, AND DEMETRIO POUBOURIDIS	183
The Prognostic Implication of Thymoma Histologic Subtyping: A Study of 80 Consecutive Cases. EDOARDO PESCARMONA, ERINO A. RENDINA, FEDERICO VENUTA, COSTANTE RICCI, LUIGI P. RUCCO, AND CARLO D. BARONI	190
Detection of HIV-Related Protein in Testes and Prostates of Patients with AIDS. MOACYR DA SILVA, MARIA M. SHEVCHUK, WILLIAM J. CRONIN, NOEL A. ARMENAKAS, MYRON TANNENBAUM, JOHN A. FRACCHIA, AND HARRY L. IOACHIM	196
The Expression of HLA Class I Antigens in Germ Cell Testicular Cancer. BARUCH KLEIN, TIRZA KLEIN, MIRIAM KONICHEZKY, ABRAHAM NYSKA, ELLA LIVINI, ISRAEL LEVINE, RINA ZAMIR, ODED KOOPERMAN, AND HEDWIG LURIE	202
Persistent Lymphadenopathies in People at High Risk for HIV Infection: Clinicopathologic Correlations and Long-Term Follow-Up in 79 Cases. HARRY L. IOACHIM, WILLIAM CRONIN, MANIMALA ROY, AND MENACHEM MAYA	208
Progressive Transformation of Germinal Centers With and Without Association to Hodgkin's Disease. MARTIN-L. HANSMANN, CHRISTIAN FELLBAUM, PAK K. HUI, AND PIERRE MOUBAYED	219
Differentiation of T-Cell Lymphoma from Hodgkin's Disease: Mitotic Rate and S-Phase Analysis. BARBARA M. OSBORNE, MARGARET O. UTHMAN, JAMES J. BUTLER, AND PETER MCLAUGHLIN	227
Non-Hodgkin's Lymphomas of the Gastrointestinal Tract: An Evaluation of Paraffin Section Immunostaining. BARBARA C. WOLF, ALVIN W. MARTIN, H. J. REE, PETER M. BANKS, SUSIE SMITH, AND RICHARD S. NEIMAN	233
Clinical Utility of Serum Tests for Iron Deficiency in Hospitalized Patients. EDWARD R. BURNS, S. NAHUM GOLDBERG, CHRISTINE LAWRENCE, AND BARRY WENZ	240
Coagulation and Fibrinolytic Changes in Evolving Acute Myocardial Infarction Treated by High-Dose, Brief-Duration Intracoronary or Intravenous Streptokinase. AUBREY A. LURIE, WILLIAM J. ROGERS, AND LORRAINE F. GROSS	246
Evaluating Diagnostic Tests with Imperfect Standards. PAUL N. VALENSTEIN	252
Brief Scientific Reports	
DNA Content and Proliferative Index in Cutaneous Squamous Cell Carcinoma and Keratoacanthoma. MILTON B. RANDALL, KIM R. GEISINGER, TIMOTHY E. KUTE, DAVID H. BUSS, AND ROBERT W. PRICHARD	259

TABLE OF CONTENTS

Rapid Analysis of Lymphocyte Subsets in Cord Blood. PATRICIA K. KOTYLO, JOHN C. BAENZINGER, MERVIN C. YODER, WILLIAM A. ENGLE, AND CAROL D. BOLINGER	263
Serum Volumes Should Not Be Reduced When Testing Neonates for Unexpected Red Cell Antibodies. DELORES G. CORDLE, RONALD G. STRAUSS, AND THEODORE A. KOERNER	267
Clinical Relevance of Viridans and Nonhemolytic Streptococci Isolated from Blood and Cerebrospinal Fluid in a Pediatric Population. AYSER CHALABI HAMOUDI, MARILYN M. HRIBAR, MARIO J. MARCON, AND HAROLD J. CANNON	270
Immunocytochemical Staining for Human Chorionic Gonadotropin Subunits Does Not Predict Malignancy in Insulinomas. FIONA GRAEME-COOK, GEORGE NARDI, AND CAROLYN C. COMPTON	273
Single Case Reports	
Hereditary Persistence of Fetal Hemoglobin Presenting as Fetal-Maternal Hemorrhage. DONALD L. WEAVER, JOAN C. BARTHOLD, BARBARA HAMILL, GREGORY H. SHARP, AND BARBARA H. TINDLE	277
Immunoblastic Lymphoma of T-Cell Type in a Chronically Immunosuppressed Renal Transplant Recipient. ROGERS C. GRIFFITH, BRATIN K. SAHA, CHRISTINE M. JANNEY, LEE RATNER, ELIZABETH M. BRUNT, KAZIMIERA J. GAJL-PECZALSKA, AND DOUGLAS W. HANTO	280
Oligoclonal Immunoglobulin Heavy Chain Gene Rearrangement in a Childhood Immunoblastic Lymphoma: Presentation as a Polyphenotypic Atypical Lymphoproliferative Reaction. RICHARD O. WHITTEN, MARY ZUTTER, JANICE IACI-HALL, MICHAEL ODELL, AND PAMELA KIDD	286
Editorials	
Pulmonary Blastoma. FREDERIC B. ASKIN	294
Evaluating Serum Tests for Iron Deficiency. J. ROBERT BECK	296
Correspondence and Corrections	
Non-Hodgkin's Lymphoma. JOSÉ VASSALLO, MARIO DO CARMO G. A. ASSUNÇÃO, AND JESUS CARLOS MACHADO	298
The Authors' Reply. DAVID R. HEAD, LIZARDO CEREZO, CARL KJELDSBERG, AND JAMES AVAKIAN	298
Monoclonal Antibody Leu-22. W. P. STROSS, D. J. FLAVELL, K. C. GATTER, AND D. Y. MASON	299
The Authors' Reply. ROGER A. WARNKE, BO-YEE NGAN, AND LOUIS PICKER	299
The Authors' Reply. J. W. SAID AND G. S. PINKUS	300
Definition of Method Sensitivity. PAUL E. SWANSON AND MARK R. WICK	300
The Author's Reply. JULES M. ELIAS	301
Ova versus Larvae. M. GERARD CLOHERTY	302
The Author's Reply. J. P. KILBOURN	302
Predicting a Positive Microscopic Examination of Urine. GEORGE C. HOFFMAN, RALPH GREEN, AND CAROL ANN EDINGER	302
Correction	303
News and Notices	303
Information for Authors	304

Number 3, March 1990

The Diagnostic Utility of Desmin: A Study of 584 Cases and Review of the Literature. LUAN D. TRUONG, SAMREUNG RANG-DAENG, PHILIP CAGLE, JAE Y. RO, HAL HAWKINS, AND RAMON L. FONT	305
Immunohistochemical and Ultrastructural Localization of T Antigen in Ovarian Tumors. MOHAMMAD GHAZIZADEH, TATSUO OGURO, YOSHIHIRO SASAKI, KAORU AIHARA, TSUTOMO ARAKI, AND GEORG F. SPRINGER	315
A Prospective Comparison of DNA Quantitation by Image and Flow Cytometry. THOMAS W. BAUER, RAYMOND R. TUBBS, MARK G. EDINGER, PAULA F. SUIT, GORDON N. GEPHARDT, AND HOWARD S. LEVIN	322
Ki-1-Positive Non-Hodgkin's Lymphomas: An Immunophenotypic, Ultrastructural, and Morphometric Study. BRUCE F. BURNS AND IRVING DARDICK	327
Hodgkin's Disease Variant of Richter's Syndrome: Report of Eight Cases. MARIA BRECHER AND PETER M. BANKS	333
Fibroblasts in Synovitis in Rheumatoid Arthritis but not in Noninflammatory Synovial Tissue in Meniscus Lesions Express the Carboxyterminal Domain of Procollagen Type I. YRJÖ T. KONTTINEN, ROBERT VON ESSEN, MATS GRÖNBLAD, VEIJO VAHVANEN, SEPPÖ SANTAVIRTA, ILKKA ANTTI-POIKA, AND MARTTI HÄMÄLÄINEN	340
Clinical Comparison of Immunoradiometric Assays for Intact Versus Beta-Specific Human Chorionic Gonadotropin. MARIANNA G. PARDUE, E. HOWARD TAYLOR, STEPHEN LONDON, ROBERT C. WALLS, AND ALEX A. PAPPAS	347
Evaluation of a Sensitive Immunoenzymetric Assay for Maternal-Serum Alpha-Fetoprotein Screening: Comparison with Radioimmunoassay. JAY L. BOCK	352
The Effect of Sodium Chloride Concentration, Water Content, and Protein on the Gas Chromatographic Headspace Analysis of Ethanol in Plasma. MARK T. WATTS AND OLIVIA L. McDONALD	357

TABLE OF CONTENTS

Immunohistochemical Detection of Chlamydial Antigens in Association with Cystitis. MUHAMMAD S. SHURBAJI, J. STEPHEN DUMLER, WESLEY R. GAGE, GEORGE L. PETTIS, PRABODH K. GUPTA, AND FRANCIS P. KUHADJA	363
Histoplasmosis in Patients with Acquired Immunodeficiency Syndrome: Hematologic and Bone Marrow Manifestations. PAUL J. KURTIN, DAVID S. MCKINSEY, MALA R. GUPTA, AND MICHAEL DRIKS	367
Clinical Comparison of Two Assays for Rapid Detection of Cytomegalovirus Early Nuclear Antigen. GAIL L. WOODS, ANN M. JOHNSON, AND GEOFFREY M. THIELE	373
Brief Scientific Reports	
Immunocytochemical Detection of Progesterone Receptor in Breast Carcinoma: Comparison of Two Monoclonal Antibodies. JORMA J. ISOLA, MARKKU J. HELLE, AND HEIKKI J. HELIN	378
Specific Phenotyping of T-Cell Proliferations in Formalin-Fixed Paraffin-Embedded Tissues: Use of Antibodies to the T-Cell Receptor β F1. JONATHAN W. SAID, I. PETER SHINTAKU, KARTIK PAREKH, AND GERALDINE S. PINKUS	382
A New Murine Monoclonal Antibody for the Diagnosis of Erythroleukemia. LAWRENCE A. SOLBERG, JR., KARL J. OLES, TERESA K. KIMLINGER, AYALEW TEFFERI, JERRY A. KATZMANN, AND CHIN-YANG LI	387
The Effect of Bacteremia on Automated Platelet Measurements in Neonates. CELESTE H. PATRICK AND JOHN LAZARCHICK	391
Abnormality of Von Willebrand Factor in Patients with Hemoglobin E- β^0 Thalassemia. PETER J. BENSON, LOANN C. PETERSON, DUANE K. HASEGAWA, AND CLARK M. SMITH, II	395
Measurement of Platelet Von Willebrand Factor Is Dependent on Method of Platelet Isolation. SUSAN SOLYMOSS, ELIZABETH A. GOLDEN, AND EDWIN G. BOVILL	400
Rapid Differentiation of Subarachnoid Hemorrhage from Traumatic Lumbar Puncture Using the D-Dimer Assay. DANIEL T. LANG, LINDA B. BERBERIAN, STEPHEN LEE, AND MARK AULT	403
Evaluation of the Behring Nephelometer for Detection of Low Level Urinary Albumin. LEE H. HILBORNE, PETER C. LIN, SHARON ANNE HIGGINS, AND DENIS O. RODGERSON	405
Rapid Immunoperoxidase Demonstration of <i>Rickettsia rickettsii</i> in Fixed Cutaneous Specimens from Patients with Rocky Mountain Spotted Fever. J. STEPHEN DUMLER, WESLEY R. GAGE, GEORGE L. PETTIS, ABDU F. AZAD, AND FRANCIS P. KUHADJA	410
Use of Gen-Probe and Bactec for Rapid Isolation and Identification of Mycobacteria: Correlation of Probe Results with Growth Index. BARBARA A. BODY, NANCY G. WARREN, ANNA SPICER, DENNIS HENDERSON, AND MARSHA CHERY	415
Single Case Reports	
Benign Mesenchymoma of the Round Ligament: A Report of Two Cases with Immunohistochemistry. MARGARET A. NUOVO, GERARD J. NUOVO, DANIEL SMITH, AND STEVEN H. LEWIS	421
Melanotic Schwannoma of Bone: Clinicopathologic, Immunohistochemical, and Ultrastructural Features of a Rare Primary Bone Tumor. JEFFREY L. MYERS, WANDA BERNREUTER, AND WILLIAM DUNHAM	424
Editorials	
Antidesmin Antibodies: Their Use in Diagnostic Pathology. NELSON G. ORDÓÑEZ	430
HCG Assays: A Plea for Uniformity. JAY L. BOCK	432
News and Notices	434
Abstracts of Papers	
Abstracts of Paper and Poster Presentations, Scientific Sessions of the Spring Meeting of the American Society of Clinical Pathologists and the College of American Pathologists, March 24-29, 1990, San Francisco, California	435
Information for Authors	456

Number 4, April 1990 Supplement 1

Editorial	
The Changing Field of Hematopathology: Tradition <i>Versus</i> Technology. CURTIS A. HANSON	S1
Retrospective	
Historical Account of Tests of Hemostasis. CHARLES A. OWEN, JR.	S3
Commentary	
New Technology in Laboratory Medicine: A Call for Pathologists to Lead the March. ROBERT W. MCKENNA	S9
Forefronts	
Epitome: Automated Differentials in the Hematology Laboratory. JOHN R. KRAUSE	S11
Epitome: Immunophenotyping of Hematologic Neoplasms in Paraffin-Embedded Tissue Sections. FREDERICK R. DAVEY, M. TAREK ELGHETANY, AND ANTHONY S. KUREC	S17

TABLE OF CONTENTS

Epitome: Quality Control in Flow Cytometry for Diagnostic Pathology: I. Cell Surface Phenotyping and General Laboratory Procedures. J. PHILIP MCCOY, JR., JOHN L. CAREY, AND JOHN R. KRAUSE	S27
Epitome: Molecular Gene Rearrangement Analysis in Hematopathology. DOUGLAS S. HARRINGTON	S38
Epitome: <i>In Situ</i> Hybridization in Hematopathology. JOHN G. STRICKLER AND CEDITH M. COPENHAVER	S44
Epitome: Theory and Applications of the Polymerase Chain Reaction. DANIEL G. REMICK, STEVEN L. KUNKEL, ELIZABETH A. HOLBROOK, AND CURTIS A. HANSON	S49

Number 4, April 1990

Ovarian Carcinomas with Transitional Cell Carcinoma Pattern. ELVIO G. SILVA, SUSAN S. ROBEY-CAFFERTY, TERRY L. SMITH, AND DAVID M. GERSHENSON	457
Prostatic Adenocarcinoma: Evaluation of Immunoreactivity to Monoclonal Antibody B72.3. MICHAEL T. MAZUR AND JANA J. SHULTZ	466
Nuclear DNA Content as a Prognostic Factor in T ₁₋₂ N ₀ Breast Cancer. SAKARI TOIKKANEN, HEIKKI JOENSUU, AND PEKKA KLEMI	471
DNA Content and Proliferative Activity of Cystosarcoma Phyllodes of the Breast: Potential Prognostic Significance. ADEL K. EL-NAGGAR, JAE Y. RO, DONIA MCLEMORE, AND LISA GARNISY	480
Diagnostic Yield from 231 Autopsies in a Community Hospital. MADHUSUDAN G. RAO AND ANIS F. RANGWALA	486
Three Sensitive Methods for the Detection of Cytomegalovirus in Lung Tissue of Patients with Interstitial Pneumonitis. MEHDI JIWA, RENKE D. M. STEENBERGEN, FERRY E. ZWAAN, PHILIP M. KLUIN, ANTON K. RAAP, AND MELS VAN DER PLOEG	491
T-Cell Receptor Expression in the T-Cell Malignancies. NAOYOSHI MORI, KUNIYUKI OKA, YASUHIRO YODA, TSUKASA ABE, AND MIZU KOJIMA	495
Immunophenotyping of Acute Leukemias Using Paraffin-Embedded Tissue Sections. ANTHONY S. KUREC, VICTORIA E. CRUZ, DONNA BARRETT, DAVID Y. MASON, AND FREDERICK R. DAVEY	502
Experimental Murine Invasive Pulmonary Aspergillosis. DAVID J. EISENSTEIN, PAUL W. BIDDINGER, AND JUDITH C. RHODES	510
Malignant Melanoma: Interaction with Coagulation and Fibrinolysis Pathways <i>In Situ</i> . MAREK Z. WOJTUKIEWICZ, LEO R. ZACHARSKI, VINCENT A. MEMOLI, WALTER KISIEL, BOHDAN J. KUDRYK, SANDRA M. ROUSSEAU, AND DAVID C. STUMP	516
Von Willebrand's Variant (type II Buffalo): Thrombocytopenia after Desmopressin but Absence of <i>In Vitro</i> Hypersensitivity to Ristocetin. JOSEPH D. SWEENEY, LYNNE A. HOERNIG, ARLENE N. BEHRENS, EDWARD NOVAK, AND RICHARD T. SWANK	522
Abnormalities of Leukocyte Histograms Resulting from Microorganisms. BRUCE A. MARSHALL, KARL S. THEIL, AND JOHN T. BRANDT	526
The Impact of Screening a Heterogeneous Donor Population for Alanine Aminotransferase and Hepatitis B Core Antibody: Experience at a Large Southern California Hospital. SUNITA SAXENA AND IRA A. SHULMAN	533
Brief Scientific Reports	
Sensitivity and Interobserver Variability of the Recombigen®-HIV-1 LA Test. JEFFREY A. HOUCK, DANIEL D. SEDMAK, MARY P. GROSE, AND JOHN C. NEFF	538
Detached Ciliary Tufts: Comparison with Intestinal Protozoa and a Review of the Literature. RAHEELA ASHFAQ-DREWETT, CAMMIE ALLEN, AND ROBERT L. HARRISON	541
Immunophenotypic Analysis of Cells Isolated from Eone Marrow Biopsies in Patients with Failed Bone Marrow Aspiration ('dry tap'). GERMAN A. PIHAN AND BRUCE A. WODA	545
Ristocetin-Induced Platelet Aggregate Formation and Adherence to the Probe of an Impedance Aggregometer. JOSEPH D. SWEENEY, JAMES W. LABUZETTA, ZALE P. BERNSTEIN, KENNETH L. BIELAT, AND JOHN E. FITZPATRICK	548
An Evaluation of a Solid Phase Red Cell Adherence Test for Detecting Platelet-Associated IgG in Immune Thrombocytopenia. CAROL D. JONES, LYNN M. GOULD, AND STEPHEN LEE	552
Hemangioblastoma and Renal Clear Cell Carcinoma Distinguished by Means of the AgNOR Method. JOHN CROCKER, MARTYN P. CAREY, AND ROSEMARY ALLCOCK	555
A Rapid Technique for Accurately Localizing Microcalcifications in Breast Biopsy Specimens. GREGORY P. GAUVIN, MICHAEL J. SHORTSLEEVE, AND JOHN T. OSTHEIMER, JR.	557
Assessment of Serum Gamma Glutamyl Transpeptidase Levels in Low Stage Renal Cell Carcinoma. V. O. SPEIGHTS, JR., EDWARD RAPPAPORT, AND ROBERT S. BEISSNER	560
Single Case Reports	
Kappa Light Chain Gene Rearrangement in T-Cell Acute Lymphoblastic Leukemia. CURTIS A. HANSON, MARAN THAMILARASAN, CHARLES W. ROSS, LLOYD M. STOOLMAN, AND BERTRAM SCHNITZER	563
Plasmacytoid T-Cells in a Reactive Lymph Node: Detection by Flow Cytometry? RONALD BRUBAKER, AND STEVEN H. SWERDLOW	569

TABLE OF CONTENTS

Spurious Automated Leukopenia Due to <i>In Vitro</i> Granulocyte Aggregation. L. RALPH ROHR, AND FLORENCE M. RIVERS	572
Giant Forms of <i>Blastomyces dermatitidis</i> in the Pulmonary Lesions of Blastomycosis: Potential Confusion with <i>Coccidioides immitis</i> . JOHN C. WATTS, FRANCIS W. CHANDLER, MICHAEL L. MIHALOV, PATRICIA L. KAMMEYER, AND ALI-REZA ARMIN	575
Type IV Ehlers-Danlos Syndrome Presenting as Sudden Infant Death. ROGER W. BYARD, FREDERICK W. KEELEY, AND CHARLES R. SMITH	579
Possible Association of Acute Inflammatory Exudate in Chorioamnionitis and Amniotic Squamous Metaplasia. RUTH H. CHEW AND BORIS K. SILBERBERG	582
Editorials	
Primary Ovarian Transitional Cell Carcinoma: Diagnostic and Prognostic Considerations. DEBORAH J. GERSELL	586
Testing the Blood Supply for Non-A, Non-B Hepatitis: A Nonspecific Approach for Improving Transfusion Safety Has a Heterogeneous Impact on Blood Donors. JAY E. MENITOVE	589
Correspondence and Corrections	
Signet-Ring Squamous Cell Carcinoma of the Pyriform Sinus. J. KLIJANIENKO, C. MICHEAU, A. PONZIO-PRION, AND N. AZLI	592
The Authors' Reply. STEWARD F. CRAMER AND LUCILLE M. HEGGENESS	593
News and Notices	593
Information for Authors	594

Number 5, May 1990

Inaugural Address: President, American Society of Clinical Pathologists. GEORGE D. LUNDBERG	595
Juvenile Papillomatosis of the Breast: A Follow-Up Study of 41 Patients Having Biopsies Before 1979. PAUL PETER ROSEN AND MAREK KIMMEL	599
So-Called Fibroepithelial Polyps of the Vagina Exhibiting an Unusual but Uniform Antigen Profile Characterized by Expression of Desmin and Steroid Hormone Receptors but No Muscle-Specific Actin or Macrophage Markers. CARL-ALEXANDER HARTMANN, MATTHIAS SPERLING, AND HARALD STEIN	604
Pulmonary Lymphangioleiomyomatosis and Steroid Receptors: An Immunocytochemical Study. UTA BERGER, ASGHAR KHAGHANI, ARIELA POMERANCE, MAGDI H. YACOB, AND R. CHARLES COOMBES	609
Deoxyribonucleic Acid Ploidy and Cell Cycle Analysis of Colorectal Carcinoma by Flow Cytometry: A Prospective Study of 137 Cases Using Fresh Whole Cell Suspensions. DANIEL L. HOOD, ROBERT E. PETRAS, MARK EDINGER, VICTOR FAZIO, AND RAYMOND R. TUBBS	615
Characterization of Monoclonal Antihuman Small Bowel and Colon Specific Mucin Antibodies. THOMAS P. PRINDIVILLE, MARY CANTRELL, M. E. GERSHWIN, AND BORIS H. RUEBNER	621
Expression of Aldolase C Isozyme in Renal Cell Carcinoma. MUNEHISA TAKASHI, HAJIME HAIMOTO, TAKASHI KOSHIKAWA, AND KANEFUSA KATO	631
Image Analysis Confirmation of DNA Aneuploidy in Flow Cytometric DNA Distributions Having a Wide Coefficient of Variation of the G0/G1 Peak. PATRICK W. MCFADDEN, LAWRENCE J. CLOWRY, KRISTINE DAEHNERT, LAWRENCE L. HAUSE, AND SUSAN M. KOETHE	637
DNA Polymerase α : An Immunohistochemical Marker for Proliferating Cells in Normal and Neoplastic Human Tissues. YUTAKA TSUTSUMI, SADAOKI HORI, AND NOBORU ONODA	643
Cytomegaloviral Adenitis and Adrenal Insufficiency in AIDS. USHA PULAKHANDAM AND HOSOUN P. DINCISOY	651
Plasma Cell Myeloma with Cleaved, Multilobated, and Monocytoid Nuclei. LAWRENCE R. ZUKERBERG, JUDITH A. FERRY, MICHELE CONLON, AND NANCY L. HARRIS	657
The Effect of Various Cell Separation Procedures on Assays of Neutrophil Function: A Critical Appraisal. LEWIS GLASSER AND ROGER L. FIEDERLEIN	662
Improved Avidin-Biotin Immunoperoxidase Method for Terminal Deoxyribonucleotidyl Transferase and Immunophenotypic Characterization of Blood Cells. RODNEY T. MILLER AND CAROL L. GROOTHUIS	670
Brief Scientific Reports	
<i>In Situ</i> Hybridization Studies for Viral Nucleic Acids in Heart and Lung Allograft Biopsies. LAWRENCE M. WEISS, LUCILE A. MOVAHED, GERALD J. BERRY, AND MARGARET E. BILLINGHAM	675
One-Stage Method for Assay of Tissue Factor Activity of Leukemic Cell with Special Reference to Disseminated Intravascular Coagulation. KIYOSHI ANDOH, HIROTO SADAKATA, TOSHIMASA UCHIYAMA, NOBUHIRO NARAHARA, HIROSHI TANAKA, NORIO KOBAYASHI, AND TADASHI MAEKAWA	679
Comparison of Two APTT Methods of Monitoring Heparin Therapy: APTT Ratio and Heparin Response of Pooled Normal Plasma. BRENT ZANKE AND A. MAJID SHOJANIA	684

TABLE OF CONTENTS

The Optimum Urine Collections for the Detection and Monitoring of Bence Jones Proteinuria. MALCOLM L. BRIGDEN, EVELYN D. NEAL, MICHAEL D. D. MCNEELY, AND GORDON N. HOAG	689
Variability in the Fibrinogen and Von Willebrand Factor Content of Cryoprecipitate: Implications for Reducing Donor Exposure. MAUREANE HOFFMAN AND PAUL JENNER	694
Single Case Reports	
Acute Infectious Mononucleosis: CD30 (Ki-1) Antigen Expression and Histologic Correlations. SUSAN L. ABBONDANZO, NORIKO SATO, STEPHEN E. STRAUS, AND ELAINE S. JAFFE	698
Kappa Immunoglobulin Light Chain Gene Rearrangement in a T-Lineage Chronic Lymphocytic Leukemia. CHARLES T. LUTZ, MARY E. GALLES, JOHN D. KEMP, JAMES A. GOEKEN, AND FRED R. DICK	702
Award Articles and Special Reports	
Special Report: ASCP Colorado Springs Conference. The Future Content and Structure of Residency Training in Pathology. M. DESMOND BURKE, GEORGE D. LUNDBERG, JOYCE NUZZO, AND ROLLA B. HILL	706
Editorials	
Guidelines for Computer-Related Articles. PAUL G. CATROU AND MYRTON F. BEELER	712
The Continuing Evolution of Our Understanding of Juvenile Papillomatosis of the Breast. LOUIS P. DEHNER	713
Potential and Problems of the <i>In Situ</i> Molecular Detection of Viral Genomes. MARK H. STOLER AND NORMAN B. RATLIFF	714
Book Reviews	717
Correspondence and Corrections	
Method Already in Use. E. J. STAY AND F. M. CARDENAS	721
The Author's Reply. NELSON D. HOLMQUIST	721
Drop CIN? NELSON D. HOLMQUIST	722
The Authors' Reply. DOUGLAS W. FRANQUEMONT, BRIAN E. WARD, WILLIE A., ANDERSEN, AND CHRISTOPHER P. CRUM	722
Correction	722
News and Notices	723
Information for Authors	724

Number 6, June 1990

Lymphocytic Mastopathy: An Autoimmune Disease of the Breast? IRA S. SCHWARTZ AND JAMES A. STRAUCHEN	725
Morphologic Diversity in Malignant Melanomas. RAOUF E. NAKHLEH, MARK R. WICK, ANTONIO ROCAMORA, PAUL E. SWANSON, AND LOUIS P. DEHNER	731
Mesothelial Cell Inclusions in Mediastinal Lymph Nodes Mimicking Metastatic Carcinoma. JOHN S. J. BROOKS, VIRGINIA A. LIVOLSI, AND GIUSEPPE G. PIETRA	741
Comparative Study of Automated Versus Manual Extraction of DNA from Clinical Specimens. SHERYLE A. TAYLOR, ANGELA O. W. TSANG, KIN H. FU, DAGMAR K. KALOUSEK, AND DOUGLAS E. HORSMAN	749
Fine-Needle Aspiration of Non-Hodgkin's Lymphoma: Southern Blot Analysis for Antigen Receptor, bcl-2, and c-myc Gene Rearrangements. MICHAEL E. WILLIAMS, HENRY F. FRIERSON, JR., SANA TABBARAH, AND PATRICIA S. ENNIS	754
Advantages of a New Anticoagulant in Routine Hematology on the Coulter Counter® S-Plus STKR Analyzer. UGO LIPPI, MICHELE SCHINELLA, NEREO MODENA, MARCO NICOLI, AND GIUSEPPE LIPPI	760
Banding Resolution of Amniotic Cell Chromosome Preparations for Prenatal Diagnosis. YUAN S. KAO, GRACE A. KAO, AND CAROLYN SUE WALTERS	765
Heterogeneity of Laboratory Test Results for Antiphospholipid Antibodies in Patients Treated with Chlorpromazine and Other Phenothiazines. DAVID P. LILICRAP, MICHAEL PINTO, KERRY BENFORD, PETER M. FORD, AND SALLY FORD	771
The Spectrum of Clinical and Laboratory Findings Resulting from Human Herpesvirus-6 (HHV-6) in Patients with Mononucleosis-Like Illnesses not Resulting from Epstein-Barr Virus or Cytomegalovirus. THERESA A. STEEPER, CHARLES A. HORWITZ, DHARAM V. ABLASHI, S. ZAKI SALAHUDDIN, CARL SAXINGER, ROBIN SALTZMAN, AND BURTON SCHWARTZ	776
Brief Scientific Reports	
DNA Ploidy in Pancreatic Neuroendocrine Tumors. KALLE A. ALANEN, HEIKKI JOENSUU, PEKKA J. KLEMI, SINIKKA MARIN, MARTTI ALAVAIIKKO, AND TIMO J. NEVALAINEN	784
Detection of the 1226 (Jewish) Mutation for Gaucher's Disease by Color PCR: A Means for Studying the Gene Frequency of the Disorder. ARI ZIMRAN, WANDA C. KUHLE, AND ERNEST BEUTLER	788
Pleomorphic Adenoma of the Breast. KARL T. K. CHEN	792

TABLE OF CONTENTS

Single Case Reports

Pleomorphic Adenoma (benign mixed tumor) of the Breast: An Immunohistochemical, Flow Cytometric, and Ultrastructural Study and Review of the Literature. WILLIAM A. BALLANCE, JAE Y. RO, ADEL K. EL-NAGGAR, DAVID J. GRIGNON, ALBERTO G. AYALA, AND MARVIN G. ROMSDAHL	795
Development of Melanosis of Uterine Cervix after Cryotherapy for Epithelial Dysplasia: A Case Report and Brief Review of the Literature on Pigmented Lesions of the Cervix. PRODROMOS HYTIROGLOU AND JAVIER DOMINGO	802
Extrarenal Wilms' Tumor with Cerebellar Metastasis in a Four-Year-Old Girl with Spina Bifida. L. DAVID MIRKIN, BIAGIO AZZARELLI, AND IN SOOK SEO	805
Cartilaginous Metaplasia in Calcific Aortic Valve Disease. DEBRA A. GROOM AND WILLIAM R. STARKE	809
Epithelioid Hemangioendothelioma of the Anterior Mediastinum with Osteoclast-Like Giant Cells: Light Microscopic, Immunohistochemical, and Electron Microscopic Study. JANEZ LAMOVEC, HAROLD J. SOBEL, ANDREJA ZIDAR, AND JOZE JERMAN	813
Ultrastructural, Immunohistochemical, and Cytogenetic Study of a Malignant Peripheral Neuroectodermal Tumor in a Patient Seropositive for Human Immunodeficiency Virus. GILLES GARIEPY, REGEN DROUIN, NICOLE LEMIEUX, AND CLAUDE-LISE RICHER	818
Additional Evidence That "Plasmacytoid T-Cell Lymphoma" Associated with Chronic Myeloproliferative Disorders Is of Macrophage/Monocyte Origin. CHAE H. KOO, DAVID Y. MASON, RICHARD MILLER, JONATHAN BEN-EZRA, KHALIL SHEIBANI, AND HENRY RAPPAPORT	822
Gangrenous Herpetic Whitlow in a Human Immunodeficiency Virus-Positive Patient. ALEJANDRO R. ZURETTI AND IRA S. SCHWARTZ	828

Editorials

The Editor's Final Report—1989. MYRTON F. BEELER, WANDA TOWNSEND, AND KATHY FISHER	831
Mark Wick Appointed New Editor. MYRTON F. BEELER	833
Lymphocytic Mastopathy, A 'New' Autoimmune Disease? STACEY E. MILLS	834
Human Herpesvirus-6 and Human Disease. ANTHONY L. KOMAROFF	836

Book Reviews	838
--------------	-----

News and Notices	840
------------------	-----

Correspondence and Corrections

Unfortunate and Wryly Amusing. HAROLD R. COTTLE	841
The Authors' Reply. LEE H. HILBORNE AND ROBERT K. OYE	841
The Author's Reply. PAUL VALENSTEIN	842

Index to Volume 93	843
--------------------	-----

Information for Authors	860
-------------------------	-----